

## SEQUENCE LISTING

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CONFIRMATION COPY

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633

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SeqID 23

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SeqID 27

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**SeqID 56**

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**SeqID 57**

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## SeqID 58

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## SeqID 59

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## SeqID 60

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**SeqID 61**

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**SeqID 62**

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**SeqID 63**

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## SeqID 64

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## SeqID 65

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## SeqID 66

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## SeqID 67

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## SeqID 68

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## SeqID 96

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<b>SeqID 137</b>	
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<b>SeqID 145</b>	
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SeqID 149

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SeqID 150

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SeqID 151

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SeqID 152

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SeqID 153

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SeqID 154

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SeqID 155

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SeqID 156

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IIKETANLSDMGVAKLVVFANAVEDNPFPMACAFHVGEADVIINVGVSGPGVVKRALEKVRGQSFDVVAFTVKKTAFKTRIG  
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SeqID 157

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VFEEERISPSQLWHALETDYAGEEGKVIQEMLIHADPKYGNDDDYADKLVTAAAYDIYVDEIAKYPNTRYGRGPIGGIRYSGTS  
SISANVGQGRGTLATPDGRNAGTPLAEGCSPSHNMDOHGPTSVLKSVSKLPTDEIVGGVLLNQKVNPQTLAKEEDKLKLIAALL  
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SeqID 158

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SeqID 159

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AVYDMTQSCIEKGYEHFLLITADTSRLSTRIERASGFVDALTDANMRHASLTIEDKHTNLEQIKEFLQKEIDPDEKTLVFIPI  
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SeqID 160

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SeqID 161

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SeqID 162

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SeqID 163

MKLLKKMMQVALAVFFFGLLATNTVFANTTGGRFVDKDNRKYVKKDDHKAIYWHKIDGKTYYFGDIGEMVVGWQYLEIPGTGYRDNLFDNQPVNEIGLQEKFVYFGQDGALLEQTDKQVLEAKTSENTGKVYGEQYPLSAEKRTYYFDNNYAVKTGWIYEFGHWYLNKLGNGFDDSYNPLPIGEVAKGWTQDFHVTIDIDRSKAPWPYLDASGKMLTDWQKVNGKWWYFGSSGSMATGWKYVRGKWWYLDNKNGDMKTKGWQYLGKWKYLLRSGAMVTGWWQDGSTWYLDPSNGDMKIGWTKVNGKWWYLNNSNGAMVTGSQTIDGKVNFASSGEWI

SeqID 164

MKILKKTMQVGLTVFFGGLLTSTVFADDSEGWFVQENGRTYYKKGDLKETYWRVIDGKYYFDSLSGEMVVGWQYIPFPSKGSTIGPYPNIGRLEGFPKSEWYYFDKNGVLQEFVGWIKTLEIKTKDSVGRKYGEKREDSEDKEEKRYYTNYFNQNHSLETGWLYDQSNWYLAKTEINGENYLGGERAGWINDDSTWYLDPTTGMQTGWQYLGKWKYLLRSGAMATGWYQEGTTWYLDHPNGDMKTGWQNLGNKWWYLRSSGAMATGWYQDGSTWYILNAGNGDMKTFGWQVNGNWYAYSSGALAVNTTVDGYSVNYNGEWR

SeqID 165

MVLSKYYGVADGMNVEGRGSANFIKDNLITAAHNYRHGYKEADDIYVLPAVSPSOPFGKIKVKEVRYLKEFRNLNSKDAREYDLALLILEEPIGAKLGLPTSQKNLTGITVITGPSYNFKIHQMYTDKKQVLSDDGMFLDYQVDTLEGSSGSTVDA SHRVVGVHTLGDGANQINSAVKLNERNLPIYSVLKGSLEGWKINGSWYHYRQHDQTKTGWEINDTWYLDSSGKMLTDWQKVNGKWWYLNNSNGAMVTGSQTIDGKVNFASSGEWI

SeqID 166

LMKKTFLLVGLFCLLPLSVAIDFKINSYQGDLYIHADNTAEFRQKIVYQFEEDFKGQIVGLGRAGKMPGFDIDPHPKIQAAKNGAELADVTSEVTEADGYTVRVYNPQEGDIVEVDLVWNLNKLLFLYDDIAELNWQPLTDSSIESIEKFEFHVRGDKGAEKLFFHTGKLFRGTEIKSNLDYTIRLDNLPAKRGVTELHAYWPRTDASFQGLKGNRLIEEFNKIIDSIVREKDQSKQLVTWVLPSILSISLLSVCFYIFIYRRKTPSVKYAKNHRLEYPPMELEPMVLSSEAVYSTSLEEVSPLVKGAGKFTFDQLIQATLLDVI DRGNVSIISEGDAVGLRLVKEDGLSSFEKDCLNLAFLSGKKEETLSNLFADYKVSDSLRYRAKVSDEKRIQARGLQLKSSFEEV LNQMQEGRVKRVSFWGLPDYYRPLTGGEKAQVGMGALTPLFIFGFLFLYSLDVHGYLQLPLPILGFLGLVLSVFYYWKLRLDNRDGVLINEAGAEVYYLWTSFENMLREIARLDOAELESIVVNRLLVYATLFGYADKVSHLMKVHQIQVENPDINLYVAYGW HSTFYHSTAQMHSYASVANTASTYSVSSGSGSSGGFSGGGGGSIGAF

SeqID 167

MKSINKFLTMALAALLTASSLFSAAATVFAAGTTTSVTVKLLATGDMDKLANELETGNYAGNKVGVLPANAKEIAGVMFWWTNTNNEIIDENGQTLGVNIDPQTFKLSCAMPATAMKKLTAEAGAKFTNANLPAAKYKIYEIHSLSITYVGEDGATLTGSKAVPIEIELPLNDVVDAHVYPKNTEAKPKIDKDFKGKANPDTPRVDKDTPVNHQVGDDVVEYEIVTKIPALANYATANWSDRMTEGLAFNKGTVKVTVDDVALEAGDYLATEVATGFDLKLTDAGLAKEVNDQNAEKTVKITYSATLNDKAIVEVPESNDVTFNYGNPDHGNTPKPNKPNEGDLTLTKTVWDATGAPIPAGAEATFDLVNAQTGKVQVTITLTTDKNTVTVNGLDKNTTEYKFVERSIKGYSADYQEITTAGEIAVKNWDENPKPLDPTEPKVVTYGGKFKVNDKDNRLAGAEFVIANADNAGQYLARKADKVSQEEKQLVTTKAALDRAVAAYNALTAQQQTOQKEKEVVDKAQAAYNAAVIAANNAFEWVADKDNEVVKLVSDAQGRFEITGLLAGTYYLEETKQPAAGYALLTSRQKFEVTATSYSATGQGIEYTAGSGKDDATKVNNKKITIPQTGGIGTIIFAVAGAAIMGIAVYAVKNNKDEDQLA

SeqID 168

MAVMAYPLVSRLYYRVESNQQIADFKEKATLDEADIDERMKLAQAFNDSLNNVVGDPWSEEMKKGRAEYARMLEIHERMGHVEIPVIDVDPVYAGTAEEVLQQGAGHLEGTSPLIGGNSTHAVITAHTGLPTAKMFTDLTKLKVGDKFYVHNKEVMAYQVDQVKVIEPTNFDDLLIVPGHDYVLLTCTPYMINTHRLLVRGHRIPYVAEVEEEFIAANKLSHLYRFLYAVGLIVILLWIIRRLRKKKKQPEKALKALARKEVKVEDGQQ

SeqID 169

MSRTKLRALLGYLLMLVACLIPIYCFGQMVLQSLGQVKGHATFVKSMTEEMYQEQQNHSLAYNQLASQNRIVDPFLAEGYEVNYQVSDDPDADVGYLSIPSLEIMEPVYLGADYHHLGMGLAHVDGTLPLDGTGIRSVIAGRHAEPHSVFFRHLDQLKVGDALYYDNGQEIVEYQMMDETEIIILPSEWEKLESVSSKNIMTLITCDPIPTFNKRLLVNPFRVAVYQKSDPQTAAVARVAFTEKGQSUSRVATSQWLYRGLVVLAFGLGILFVLWKLARLLRGK

SeqID 170

MKNPFFERRCRYSIRKLSVGACSLMIGAVLFAGPALAETAVPENSANTELVSGESEHSTNEADKQNEGEHARENKLEKAEGVALASETASPNEAATTETAAASAAKPEEKASEVVAETPSAEAKPKSDKETEAKPEATNQGDESKPAAEANKTEKEVQPDVPKNTEKTLKPKIEKFNSWEELLKWEPGAREDDAINRGSVVLASRRTGHLVNEKASKEAKVQALSNTNSAKDHASVGGEFKA YAFDYWQYLDMSMVFWGLVPTPVIDAGHRNGVPYGTLPFNWSNSIADQERFAEALKQDADGSFPIARKLVDMAKYYGYDGYFINQETTGDLVKPLGKMRQFMLSKEYAAKVNHPKYSWYDAMTYNYGRYHQDGLGEYNYQFMQPEGDKVPADNFFANFNWD KAKNDYTITATANWIGRNPyDVFAGLELQQGGSYKTKVWKWNDILDENGKLRSLSLGFLAPDTITSLGKTGEDYHKNEDIFFTGYQGDPTGQKPGDKDWYGLANLVADRTPAVGNTFTTSFNTGHGKWFVDGKVSKDSEWNYRSVSGVLPTRWWQTSTGEKLRAEYDFTDAYNGGNSLKFSGDVAGKTDQDVRLYSTKLEVTEKTLRVAHKGGKGSKVMFSTTPDYKFDDADAWKELTLSDNWTNEEFDLSSLAGKTIYAVKLFFEHEGAVKDYQFNLGQLTISDNHQEPQSPSTSFSVVKQLSKNAQEAEAVVQFKGNKDADFYEVYEDGDWSKLLTGSSSTTIYLPKVSRSASAQGTTQELKVVAVGKNGVRSEAATTTFDWGMTVKDTSLPKPLAENIVPGATVIDSTFP

KTEGGEGIEGMLNGTITSLSDKWSSAQLSGSVDIRLTKPRTVVRWMDHAGAGGESVNDGLMNTKDFDLYYKDADGEWKLAKE  
VRGNKAHTVDITLDKPITAQDWRLNVVTSMDNGTPWKAIRIYNWKMYEKLDTESVNIPMAAKAARSGLNNKVQVGFDVPAGAT  
ITVYDNPNQSQTPLATLKSEVGGDLASAPLDLTNQSGLLYVRTQLPGKEISNVLAWSVPKDRIKSVSLETGPKKTSYAEGED  
LDLRGGVLRVQYEGGTEDELIRLTHAGVSVSGFDTHHKGEQNLTLOQLGQPVNANLSVTVTGQDEASPTKILGIEVSQEPPKDD  
YLVGDSLDLSEGRCFAVAYSNDTMEEHSTDEGVEISGYDAQKTGRQLTLHYQGHEVSFDVLVSPKAALNDEYLKQKLAEEVA  
AKNKVVYNFASSEVKEAFLKAIIEEEAQVQLKDHTESTQDVNDRNLNLTAAHKALNCQEKFTEEKTLDRLTGEVQELLAACKPN  
HPGSALSALPPLKEKNKALVEKVDSLSPPELTAKOSLKDVLALLKEDKPAAVFSDSKTGVVFHSNEKTVIKGLKVERVQASAEE  
KKYFAGEDAHVFIEGLDEKGQDVDLSYASIVKIPIEKDKKVKKVFFLPEGKEAVERAFAEQTDSHVIFTAPHFTHYAFVYESA  
EKPQPAKPAQONTVLPKPTYQPTSDQQKAPKLEVQEEKVAFHRQEHENTEMLVGEQRVIQGRDGLLRHVFDEVENGQRRRLRS  
TEVIEQAIPIVEIGTKVKTVPAAVATQEKPAQNTAVKSEEASKQLPNTGTADANEALIAGLASLGLASLALTLLRKREDKD

SeqID 171

MSITSFVKRIQDITRNDAGVNGDAQRIEQMSWLLFLK1YDSREMWELEEDYESIIPEELKWRNWAHAQNGERVLTGDELLDFVNKNKLFKELKELEITSNMPIRKTIVKSAFEDANNYMKNGVLLRQVINVIDEVDFFNSPEDRHSFNDIYEKILKDIQNAGNSGEFYTPRAATDFIAEVLPDKLGESMADLACGGFLTSTLNRLSSQRKTSEDTKYNTAVFGIEKKAFPHILLAVTNLFHEIDDPKIVHGNTLEKNVREYTDDKEDFDIIMMNPPFGGSELETIKNNFPAAELRSSETADLFMAVIMYRLKENGRVGVLIPDGFLFGECSVKTRLKQKLVDEFNLHTITIRLPHSVFAPYTGIHTNILFFDKTKKTEWTWFYRLDMPDGYKNFSKTKPMKSEHFNPVRDWWENREIILEGKFYKSKSFTPSLAELNYNLQCDFPKEEEEILNPFLIQNYQAERATLNHKIDNVLAIDILOLLEDK

SeqID 172

MNNNTFYDRLGVSKNASADEIKKAYRKLSSKYHPDINKEPGAEDKYKEVQEAYETLSSDDQKRAAYDQYGAAGANGGFGGAGGF  
GGFNGAGGGFGFEDIFFSSFFGGGGSSRNPNAPRGDDLQYRVNLTFEEAIFGTEKEVKYHREAGCRTNCNSGAKPGTSPTCG  
RCHGAGVINVDTQTPLGMRRQVTCDVCHGRGKEIKYPCTTCGTGHEKQAHSVHKIIPAGVETGQQIRLAGQGEAGFNGGPY  
GDLYVVVSVEASDKFEREGTTIFYNLNLFVQAAALGTVDIPTVHGDSLVIPEGTQTGKKFRRLRSKGAPSRLGGAVGDQYVT  
VNVTPTGLNDRQKVALKEFAAGDLKVNPKKKGFFDHKDAFDGE

SeqID 173

MNPNLFRSVEFYQRRYHNYATVLIPILSLLFTFILIFSLVATKEITVTSQGEIAPTSVIASIQSTSNDNPILANHLVANQVVEK  
GDLLIKYSETMEESQKTA LATQLQRLEKQKEGLGILKQSLEKATDLSGEDEFGYHNTFMNFTKQSHDIELGITKTNTEVSNQ  
ANLSSNSSSSAIEQEITKVQQQIGEYQELRDAIINNRARLPTGNPHQSILNRYLVASQGQTOGTAEEPFLSQINQSIAGLESSI  
ASLKIQQAGIGSVATYDNSLATKIEVLRQTFLQTAQQQLTVENQLTELKVQLDQATQRLENNTLTPSKGIVHLNSEFEGKN  
RIPTGTEIAQIFPVITDTREVLITYVSSDYLPLLDKGTVRLKLEKIGNHGTTIIGQLQTIIDQTPTRTEQGNLFKLATALAKL  
SNEDSKLIQYGLQGRVTSVTTKKTYFDYFKDKILTHSD

SeqID 174

MSKKLNRKKOLRNLGIRRAGAFSSVTKVVD<sup>E</sup>T<sup>K</sup>VVKRAE<sup>Q</sup>SASAAGKAVSKKVEQA<sup>V</sup>EATKEQAQKVANSVEDFAANLGGPLDRAKTFYDEGIKSASDFKNWTEKELLALKGIGPATIKLKENG<sup>I</sup>KEY

SeqID 175

LISLFGLAAGAKPVQADTSIADIQKRGELVVGVKQDVNPFGYKDPKTGTYSGIETDLAKMVADELKVKIRYVPVTAQTRGPLLD  
NEQVDMILATFTITDERKKLYNFTSPYYTDASGFLVNKSAKIKKIEDLNGKTIGVAQGSITQLLITEGLGKKGLKFKFVELGS  
YPELITSLHARIIDTFSVDRSILSGYTSKRTALLDDSFKPSDYGIVTKKSNTTELNDYLDNLVTKWSKGDSLOKLYDRYKIKPS  
SHTAD

SeqID 176

MSNISLTTLGGVRENGKNMYIAEIGESIFVLNVLKYPENEQLGVDDVIPNMDYLFENSRIAGVFLTHGHADAIGALPYLLA  
EAKVPVFGSELTIELAKLKVKGNDAVKKFNDHVIDENTIEIDFGGTTSFFPTYSVPESILGIVLKTSEGSIVYTGDFKFQDT  
ASESYATDFARLAETIGRDGVALLSDSANADSNIQVASESEVRDEITQTIAWDGRIIVAAVSSNLSR1QQIFDAADKTGRRI  
VLTGFDIENIVRTAIRLKKSLANEILLIKPKDMSRFEDHELITLETGRMGEPINGLRKMS1GRHRYVEIKDGLVYIATAPS  
IAKEAFVARVENMIYQAGGVVKLITOSLHVSIGHGNVRDLQLMINLLQPKYLFPVQGEYRELDAAKAAMAVGMLPERIFIPKK  
GTTMAYENGDFVPGSVSAGDILIDGNAIGDVGNVVLRDRKVLSEDGIFIVAITVNREKKIVARARVHTRGFVYLLKKSRDIL  
RESSELINOTVVEEYLQGDDFDWADLKGKVRDNLTKYLFOTKRRPAILPVVMEAK

SeqID 177

IKKSTVLSLTAAVILAAYAPNEVVLADTSSSEDALNISDKEKVAENKEKHENTHSAMETSQDFKEKKTAVIKEKEVVSKNPV  
DNNTSNEAKIKEENSNKSQGTYTDSFVNKNTEPKKEDKVYIAEFKDKESGEKAIKESSLKNTKVLTYDRIFNGSAIE  
TPDNLDKIKQIEGISSVERAQKVQPMNMHARKEIGVEAIDYLKSINAPFGKNFDGRGMVISNIDTGTDYRHKAMRIDDDAK  
SMRFFKKEDLKGTDKNWLSDKIPHAFNYYNGGKITVEKYDDGRDFDPHGMHLAGILAGNDTEQDINKFNGIDGIAPNAQIF  
YKMYSDAGSGFAGDETMFHAIEDSIKHNVDVSVSSGFTGTLVGEKYQAIRALRKAGIPMVVATGNYATSASSSWDLVA  
NHLKMTDTGNVTRTAAHEDAIAVASAKNQTVEFDKVNINGGESFKYRNIGAFFDKSKITTNEDEGKAPSCLKFVYIGKGQDQD  
IGLDLRLGKIAVMDRITYTKDLNAFKKAMDKGARAIMVVNTVNYNRNDWTELPMGYEADEGTKSQVFSISGDDGVKLWNM  
PDKKTEVRRNNKEDFKDKLEQYYPIDMESFNSNKPVGDEKEIDFKFAPDTDKELYKEDIIVPAGSTSWGPRLDLLKPDVS  
PGKNIKSTLNVINGKSTYGYMSGTSMATPIVAASTVLRPKLKEMLERPVLKNLKGDDKIDLTSLTKIALQNTARPMMMDATS  
KEKSQYFASPRQQAGLINVANALRNEVVATFKNTDSKGLVNSYGGISLKEIKGDKKYFTIKLHNTSRPLTFKVASAII  
SLTDRLKNDITDEYKDEKSPDGKQIVPEIHPKVGANITFEHDFTFIGANSSFDLNAVINVGEAKNKNKFVESFIHFESEEM  
ALNSNKKINFQPSLSMPLMGFAGNWHEPILDKWAEGRSRSKTLGGYDDDGKPKIPTLNKGIGGEHGIDKFNPAGVIQN  
KDKNTTSLDQNPELFAFNNEGINAPSSSGSKIANIYPLDSNGNPQDAQLERGLTPSPLVRSAEEGLISIVNTNKEGENQRD  
KVISREHFIRGILNSKSNDAGIKSSKLKVWGLKWDGLIYNPRGREENAPESKDNDQDPATKIRGOFFEPIAEGOYEYK  
KYS

LTKDYPWQVSYIPVKIDNTAPKIVSVDFSNPEKIKLITKDTYHKVKDQYKNETLFARDOKEHPEKFDEIANEVWYAGAALVNE  
 DGEVEKNLEVTYAGEGQGRNRKLDKGNTIYEIKGAGDLRGKIIIEVIALDGSSNFTKIHRIFANQADEKGMISYYLVDPDQD  
 SSKYQKLGEIAESKFKNLGNKGEGSLKKDTTGVEHHHQENEESIKEKSSFTIDRNISTIRDFENKDLKKLKKFREVDDFTS  
 ETGKRMEEYDYKDDKGNIYLADDGTDLEYETEKLDEIKSKIYGVLSPSKDGHFEILGKISNVSKNAKVYYGNNYKSIEIKAT  
 KYDFHSKTMTFDLYANINDIVDGLAFAGDMRLFVKDNDQKKAIEKIRMPEKIKETKSEYPYVSSYGNVIELGEDLSKNKPDN  
 LTKMESGKIYSDSEKQQYLLKDNLRKGYALKVTTTNPGBTMLEGNGVYSKEDIAKIQKANPNRALSETTIYADSRNVED  
 GRSTQSVLMSALDGFNIIRYQVFTFKMNDKGEAIDKDGNLVTDSKLVLFGKDDKEYTEDKFVNVEAIKEDGSMLFIDTKPVN  
 LSMDKNYFNPSKSNKTYVRNPFEYLRGKISDKGGFNELRVNVESVVDNYLIYGDHLIDNTRDFNIKLNVKDGDIMDWGMKDYK  
 ANGFPDKVTDMGNYVLQTGYSIDLNAKAVGVHYQFLYDNVKPEVNIDPKGNTSIEYADGSKVVFNINDKRNNNGFDGEIQEQUI  
 YINGKEYTSFNDIKQIIDKTLNIKIVVVKDFARNTTVEFILNKDTGEVSELKPHRVTVTIIONGKEMSTIVSEEDFILPVYKG  
 ELEKGYQFDGWEISGFEKGKDAFYVINLSDKTFIKPVFKKIEEKKEEENKPTFDVSKKKDNPQVNHSQNLNE SHRKE DLQREEH  
 SQKSDSTKDVTATVLDKNNISSKTTNNPNKLPKTGTASGAQTLAAGIMFIVGIFGLKKKNQD

SeqID 178

MGKGHWNRKRVYSIRKFAVGACSVIMGTCAVLLGGNIAGESVVYADETLITHAEPKKEKMIIVEEKADKALETKNIVERTEC  
 SEPSSTEAIASEKKEDEAVTPKEEKVSAKPEEKAPIESQASNOEKPLKEDAKAVTNEEVNQMIEDRKVDFNQNWFKLNANS  
 KEAIKPADAVSTWKKLDLPHYDWSIFNDFDHESPAQNREGQLNGGEAWYRKTFLDEKDLKKNVRLTFDGVYMDSQVYVNGQLV  
 GHYPNGYNQFSYDITKYLQKDRENVIAVHAVNKQPSPRSWYSGSIYRDVTLQVTDKVHVEKGNTTILTPKLEEQQHGVETE  
 VTSKIVNTDDKHELVAEYQIVERGGHAUTGLVRTASRTLKAHESTSLDAILEVERPKLWTVLNDKPALEYELITRVYRDGQLV  
 DAKKDLFGYRYYHWTPNEGFLSNGERIKFHGVSLHHDHGALGAEENYKAELYRRLKQMCEMVNSIRTTHNPASEQTLQIAAEI  
 GLLVQEAEFDTWYGGKKPYDYGRFFEKAHTPEARKGEKWSDFDLRTMVERGKNNPAIFMWSSIGNEIGEANGDAHSLATVKRI  
 VKVIKDVDKTRYVTMGADKFRFGNGSGGHEKIADELDAVGFNYSEDNYKALRAKHPKWLITYGSETSSATRTRGSYYRPERELE  
 HSNGPERNYEQSDYGNDRVGWGKTATASWTFDRDNAGYAGQFIWTGTDYIGEPTPWHNQNQPTPVKSSYFGIVDTAGIPKHDFT  
 LYQSOWSVVKKPMVHLLPHWNWENKELASKVADSEGKIPVRAVSNASSVELFLNGKSLGLTFNKKQTSRGRTYQEGANANE  
 LYLEWKVAYQPGTLEAIARDESGKEIARDKITTAGKPAAVRLIKEHDHIAADGKDLTYIYYEIVDSQGNVVPVTANNLVRFQLE  
 GQQLVGVNDNGEASRERYKAQADGSWIRKAFTNGKGVIAVKSTEQAGKFTLTAHSDDLKSNCVFTGKKEGQEKTVLGTEV  
 KVQTIIGEAPEMPTTVFVYSDGSRAERPWTSSVDSKPGIVTVKGAMGREVEARVEIALKSELPVVKRIAPNTDLNSVI  
 KSVSYVILGSVEEYEVDKWEIAEEDKALAIPGSRIQATGYLEGQPIHATLVEEGNPAAVPTVTVGGEAVTGLTSQKPN  
 QYRTLAYGAKLPEVATASAKNAVTVLQASAANGMRASIYIOPKDDGPQTYAIQFLEEAPKIAHLSLQVEKADSLKEDQTVKI  
 SVRAHYQDGTQAVLPADKVTFTSGEGEVAIRKGMLLEHKGAVTILNAEYEGAKDQVELTIQANTEKKAQSIRPVNVVTDLF  
 QEPSPATVTVFVYDGFPTKTHVQAIPIKEKLDLSYQTFEVLGKVEGIDLEARAKVSVEGIVSVEEVSVTTPIAEAPQLPESV  
 RTYDSNGHVSSAKVAWAIRPEQYAKEGTVNGRLEGTQLTTKLHVRVSAQTEQGANISDQWTGSEPLAFASDSNPSDPV  
 NVNDKLISYNNQ PANRWTNWNRNTPEASVGVLFGDSCILSKRSVDNLSVGFDHGTVGVPKSYIEYYVGKTVPTAPKNPSFV  
 GNEDHVFNDSANWKPVNLKAPAQLKAGEMNHFSFDKVETYAVRIRMVKADNKRGTSTEVQIFAKQVAAAKQGQTRIQVDG  
 DLANFPNDLTDYLYLESVDGKPVAVTASVSNNGLATVVPVREGEPPVRIAKAENGDLGLEYRLHFTKDKSLLSHKPVAAVKQ  
 RLLQVGQALELPTKPVYFTGKDGYETKDLTVEEEVPAENLTKAGFTVGRVGLGSNLVAEITVVRTDKLGETLSDNPV  
 NSNQAFASATNDIDKNSHDRVYDLYNDGHSENRRWTNWSPTPSSNPEVSAGVIFRENGKIVERTVTQGKVQFFFADSGTDAPS  
 LVLERYVGPEFEVPTYYNSNYQAYDADHPFNNPENWEAVPYRADKIAAGDEINVTFAKAIAKAMRWRMERKADKSGVAMIE  
 FLAPSELPQESTQSILVLDGKELADFAENRQDYQITYKGQRPKVSVEENNQVASTVVDSEDFPVVLVRLVSESGKQVKEYR  
 HLTKEKPVSEKTVAAVQEDLPKIEFVEKDLAYKTVEKKDSTLYLGETRVEQEGKVGKERIFTAINPDGSKEEKLREVVEVPTI  
 RIVLVGTPVQAEEKPKVSEKADTKPIDSSEASQTNKAQLPSTGSAASQAAAGLTLGLSAGLVVTKGKED

SeqID 179

MAPSVVDAATYHYVNKEIIISQEAKDLIQTGKPDFRNEVVYGLVYQKDQLPQTGTEASVLTAFGLLTGVSSLILIYKRKKIASVFI  
 VGAMGLVVLPSAGAVDPVATLALASREGVEMEGYRYVGYLSGDIKLTGLDTVLEETSAKPGEVTVVEVETPQOSITNQEQA  
 TENQVVFTEEAPKEEAPKTEESPKEEPKSEVKPTEADTLPKVEEGKEDSAEPAPVVEVGGEVESKPEEKVAVKPKESQPSDKPAI  
 ESKVQEAGEPVAPREDEKAPVPEPEKQPEAPEEEKAVEETPKQEESTPDTKAETVEPKEETVNVQSIQEPKVETPAVEKQTEP  
 EEPKVEQAGEPVAPREDEQAPTAPEPEKQPEPVPEEEKAVEETPKPEDKIKGIGTKEPVDKSELNNQIDKASSVSPTDYSTA  
 YNALGPVLETAKGVYASEPVKQPEVNSETNKLKTAIDALNVDKTELNNTLADAKTVKEHYSDRSWQNLQTEVTKAECVAA  
 DAKOSEVNEAVEKLTAETKLVELSEKPKILTLDKILEREAVAKYTLENQNKTKIKSITAELKGEDEVINTVVLDDK  
 TETISAFAKNLEYYKEYTLSITMIYDGRNGEETETLENQNIQLDLKKVELKNIKRTDLIKYENGKETNESLITIPDDKSNY  
 LKITSNNQKTTLLAVKNEETTVNGTPVYKVTAIDNLVSRTADMNFEEYVHYIEKPKVHEDNVYNNFKELVEAIQNDPSKI  
 YRLGQSMSARNVVPNGKSYITKEFTGKLLSSEGKQFAITEHPLFNVITNATINVNFFENVBIEERSGQDNIASLANTMKGS  
 VITNVKITGTLGRNNVAGFVNNMDGTRIENVAFFGKLHSTSGNGSHTGGIAGTNYRGIVRKAYVDATITGNKTRASLLVPI  
 VDYGTLTLDHILGTALLTESVVKGKIDVSNPVEVGAIASKTWPVGTVSNSVSYAKIIRGEELFGSNDVDDSDYASAHIKDLY  
 VEGYSSGMRSSFRKSKTFTKLTKEQADAKVTTFNITADKLESDSLPLAKLNEEKAYSSIQDYNAYNQAYKNLKIPFYNKD  
 IVYQGNKLNKEHHLNTKEVLSVTAMNNNEFITNLDEANKIIVHYADGKDYFNLSSSSEGLSNVKEYTITDGLIKYTPNIVQI  
 DNTTLLVNDIJKSILESVELQSQTMYQHNLRLGDRVNAIKDLYLEESFTDVKENLTNLITKLVQNEEHQLNDSPAARQMRD  
 EKNKAALLLGLTYLNRYGVKFGDVNIKEMLFKPDFYGEKVSVIDRLIEIGSKENNIKGSRTEFAQVLAKYTKSGNLD  
 LNYNRQLFTNIDNMWDWFIDATEDHVTIAERASEVEEIKNSKHFADNLKRSHLRNTILPPLNIDKAHLYLISNNAIAFGS  
 ERLGKKSLEDIKDIVNKAADGYRNYYDFWYRLASDNVQRLLRDAVTPIWEGYNAPGGWVEKYGRYNTDKVYTPLEFFGPM  
 KYYNYNGTGAYAAIYPNSDDIRTDVKYVHLEMVGEGYGISVYTHEETHVNDRAIYLGGFGHREGTDAEAYAQGMLQTPVTGSG  
 DEFGSLGINMVFKRNDGNQWYITDPKTLKTRDINRYMKGYNDLTLDEIAESVISQNKDLNSAWFKKIDREYRDNNKI  
 NQWDKIRNLSQEEKNELNIQSVNDLVDQQLMTNRNPGNGIYKPEAISYNDQSPYVGVRMMTGIYGGNTSKGAPGA  
 RLWGYGYENGFLGYASNKYKQSKTDGESVLSDEYIICKISNNFTNTIEEFKKAYKEVKDKATKGLTTFEVNGSSVSSYDI  
 LLTLFKEAVKDAETLKQEANGKTVSMNNTVKLKEAVYKKLQQTNSFKTSIFK

SeqID 180

MNKRLFSKMSLVTLPIALFSQSVLAEENIHSSCKEAWANGYSDIHEGEPGYSAKLDRDHDGVACELKNAPGAKAQSTA  
IQINTSATTSGWKQDGAWYYFDGNGLVKNQGSYLYKADGKMAQSEWIYDSSYQAWYLYKSDGSYAKNAWQGAYYLKSN  
GKMAQGEWVYDSSYQAWYLYKSDGSYARNAWQGNYYLKSDGKMAKGEWVYDATYQAWYLYTSDGSYAYSTWQGNYYLKSDGM  
AVNEWVDGGRYVGADGVKEVQASTASSNDSNSEYSAALGAKSYNSLFHMSKKRMYRQLTSDFDKFSNDAAQYAIIDHLDD

SeqID 181

MKVIDQFKNNKVLVGLAKSGESAARLLDKLGAIVTVNDGKPFEDNPAAQSILLEEGIKVITGGHPELLDEEFALMVKNPGIP  
YNNPMIEKALAKGIPVLTEVELAYLISEAPIIGITGSNGKTTTTMIGEVLTAAQGHGLSGNIGYPASQVAQIASDKDTLM  
ELSSFQLMGVQEFHPEIAVITNLMPHTIDYHGSFSEYVAAKWNQNKMTAADFVLVNFNQDLAKDLTSKTEATVVPFSTLEKV  
DGAYLEDGQLYFRGEVVMANEIGVPGSHINVENALATIAVAKLRVDNQTIKETLSAFGGVKHRLQFVDDIKGVKFYNDSKSI  
NILATQKALSGFDNSKVVLIAAGGLDRGNEFDELVPDTGLKMKVILGQSAERVKRAADKAGVAYVEATDIADATRKAYELATC  
GDVVLLSPANASWDMYANFEVRGDLFIDTVUELKE

SeqID 182

MKKKFALSFVALASVALLAACGEVKSGAVNTAGNSVEEKTIKIGFNFEESGLAAYGTAEQKGAQLAVDEINAAGGIDGKQIE  
VVDKDNKSETAAEASVTNLVTQSKVSAVVGATSGATAAAAVANATKAGVPLISPSATQDGLTKQDYLFIGTFQDSFQGKII  
SNYVSEKLNAAKVVLYTDNASDYAKGIASKFRESYKGEIVADETFVAGDTDFQAALTAKMKGKDFDAIVVPGYYNEAGKIVNQ  
RGMGIDKPPIVGGDGFGNEEFVQQATAEKASNIYFISGFSSTTVEASAKAKAFLDAYRAKYNEEPSTFAALAYDSVHLVANA  
AKNSGEIKNNLAKTKDFEGVTGQTSFDADHNTVKTAYMMTMNNKGVEAAEVVVP

SeqID 183

MSILEVKNLSHGFGDRAIFEDVSFRLLKGEHIGLVGANGEKSTFMSIVTGKMLPDEGKVEWSKYVTAGYLDQHSVLAERQSV  
RDVLRTAFDELKAEARINDLYMCKMAEDGADVDALMEEVGELODRLESRDFYTLDAKIDEVARALGVMDFGMDTDTVTSLSGG  
RTKVLIAKLLLEKEDILLDEPTNYLDAEHIDWLKRYLQNYENAFVLIHDIPFLNDVINIVYHVNQOLTRYSGDYYQFQEV  
YAMKKSQLEAAYERQKETIADLKDFVARNKARVATRNMAMSROKKLDKMDIELQSEKPKPSFDFKPARTPGRFIQAKNLQI  
GYDRPLTKPLNLTFERNQKVAIIAGANGIGKTTLLKSLLGIIISPIAGEVERGYLELGYFEQEVEGGNRQTPLEAVVNAFPALN  
QAEVRAALARCGLTTHIESQIQVLSGGEQAKVRFCLLMNRENNVLVLEPTNHLDVDAKDELKRALKEYRGSILMVCHEPDE  
YEGWIDQIWDFNNLT

SeqID 184

MKKKNGAKKWKQLYAAIGAASVVVLGAGGILLFRQPSQTALKDEPTHLUVVAKERGSVASSVLLSGTVTAKNEQYVYFDASKGDI  
DEILVSVGDKVSEGQALVKYSSEQAAYDSASRAVARADRHNELNQARNEAASAPAPQLPAPVGGEDATVQSPPTPVAGNSV  
ASIDAQLGDARDARADAAAQLSKAQSOLDATTVLSTLEGTVVVEVNSVSKSPGTASQVMHIVSNENLQVKGELSEYNLANL  
VGQEVSTFSKVPDKWTGKLSYISDYPKNNGEAASPAGNNNTGSKYPTIDVTGEVGDLKQGFSVNIEVKSKTAKILV  
LVMDDSKNYVWIVDEQQKAKKVEVSLGNADAENQEITSGLTNGAKVISNPTSSLEEGKEVKADEATN

SeqID 185

SETNHEIDSNFAGRLNILRAGVLDANDGIISIAGVVIVGVASATTNIWIIFLSGFTAILAGAFSMAGGEYVS  
VSTPKDTEEEAASREKLLLDQDRELAKKSLYAAYIQNGEFKTSQAQLLTNKIFLKNPLKALVEEKYGIEYE  
EFTNPWHAAISSFVAFFLRLSLPPMISVTIFPSDYRIPATVLI  
VGALLTGYTSARLGKAPTKTAMIRNLAI  
GLLTMGVTFLGGQLFSI

SeqID 186

MKKKLTSALVGAFLGLSWYGNVQAQESSGNKIHFINVQEGGSDAIILESNGHFAMVDTGEDYDFPDGSDSRYPWREGIETSY  
KHVLTDTRVFRRLKELGVQKLDIFILVTHSDHIGNVDELLSTYPVDRVYKSDSRITNSERLWDNLYGYDKVLTQAAEKGV  
SVIQNITOGDAHFQFGMDIQLQNYENETDSSGELKKIWDNNSNLSIVVVKNGKKIYLGDDLVHGAEDKYGPLIGKVDIM  
KFNHHHDITNKSNTKDFIKNLSPSLIVQTSDSLPWKNGVDSEYVNWLK  
ERGIERINAASKDYDATVFDIRKDG  
FVNISTSYKPI  
PSFQAGWHK  
SAYGNWWYQADP  
DSTGEYAVGWNEIEGEW  
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SeqID 187

MDLGPORGISVVSQSYINVIGAGLAGSEAAYQIAERGI  
PVKLYEMRGVKSTPQHKT  
DNFAELVCSNSLRGDALTNAVGLLKE  
EMRRLGSVILESAEATRV  
PAGGALAVDRDGFSQM  
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MLIGIPKEIKNNENRVALTPAGVHSLVSRGHRVLIETNAGLGSGFTDADYQKQGAETV  
ATAGEAWAAELVVKV  
KESLSSEYGY  
LRDDLLLFTYLM  
AAPELADAMLTAKT  
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SeqID 189

MKINKKYLGSVAVLALSVCSYELGRHQAGQVKESNRVSYIDGDQAGQKAENLTPDEVSREGINAEQIVIKITDQGYVTSH  
GDHYHYNGKVPYDAIISEELLMKDPNYQLKDSDIVNEIKGGYVIKVDGKYYVLKDAAHADNIRTKEEIKRQKQEHSNHGG  
GSNDQAVVAAARAQGRYTTDDGYIFNASDIIEDTGDAYIVPHGDHYHYIPKNELSASELAAAEEAYWNGKQGSRPSSSSSYNANP  
AQPRLSENHNLTVTPTYHQNQGENISSLLRELYAKPLSERHVESDGLIFDPAQITSRTARGVAVPHGNHYHFIPYEQMSELEK  
RIARIIPRLRYRSNHWVPSRPEQSPSQTSPSPPQAPNPQAPSNIPEKLVKEAVRKVGDGYVFEENGVSRYIPAKDLSAETAAGI  
AETAAGIDSKLAKQESLSHKLGAKKTDLSSDREFYKAYDLLARIHQDLDNKGRQVDFEALDNLLERLKDVPSDKVVLVDD  
ILAFLAPIRHPERLGKPNQAITYTDEIQVAKLAGKTTEDGYIFDPDITTSDEGDAYVTPHMTHSHWIKKDSLSEAERAAAC  
AYAKEKGLTPPSTDHQDSGNTAEKGAEAIYNRVKAACKVPLDRMPYLNQYTVEVKNGSLIIPHHDHYHNIFEWFDDEGLYEAP  
KGYTLEDLLATVKKYVEHPNERPHSDNGFCNASDHVRKNKVDQDSKPDEDKEHDEVSEPTHPESDEKENHAGLNPSSADNLKYK  
STDTEETEEEADTTDEAEIPQVENSVINAKIADAALLEKVTDPSIRQNAMELTGLKSSLLLGTKDNNNTISAEVDSLLALL  
KESQPAPIQ

## SeqID 190

MKFSKKYIAAGSAVIVSLSLCAYALNQHRSQENKDNNRVSYVDGSQSSQKSENLTQDQSQKEGIQAEQIVIKITDQGYVTSH  
GDHYHYNGKVPYDALFSEELLMKDPNYQLKDADIVNEVKGGYIIVKVDGKYYVLKDAAHADNVRTKDEINRQKQEHVKDNEK  
VNSNVAARSQGRYTTNDGYVFNPADIIIEDTGNAYIVPHGGHYHYIPKSDSLASELAAAALKAGNMQPSQLSYSSTASDNN  
TQSVAKGSTSKPANKSENLQSSLKELYDSPSAQRYSESQDGLVFDPAKIISRTPNGVAIIPHGDHYHFIPYSKLSALEEKIARMV  
PISGTGSTVSTMKPNEVVSSLGSLSNNPSSLTTSKELSSASDGYIFNPKDIVEETATAYIVRHGDHFHYIPKSNQIGQPTLF  
NNSLATPSPLPINPGTSHEKHEEDGYFDANRIJAEDESGVFMVSHGDHNHYFFKKDLTEEQIKAQKHLLEEVKTSHNGLDSI  
SSHQDYPSSNAKEMKLDKKIEEKIAGIMQYGVKRESIVNKEKNAAIYPHGDDHHADPIDEHKPGIGHSHSNYELFKPEE  
GVAKKEGNKVYTGEELTNVNVNLLKNSTFNQNFTLANGQKRVSFSPPELEKKLGINMLVKLITPDGKVLEKVSQGVFGEVG  
NIANFELDQPYLPQGTFKYTLASKDYPEVSYDGTFTVPTSLAYKMASQTIFYPFHAGDTYLRVNPQFAVPKGTDALVRVFDEF  
HGNAYLENNYKVGEIKLPIPKLNQGTTAGNKPVTFMANAYLDNQSTYIIVEPILEKENQTDKPSILPQFKRNKAQENLKI  
DEKVEEPTSEKVEKEKLSETNSTEVPTVDPVQEKFVKAESYGMKLENVLNFNMDGTIELYLPSEVIKKNMADFI  
GEAPQNGENKPSENGKVSTGTVENQPTENKPADSLPEAPNEKPVKPNSTDNGMLNPEGNVGSDPMLEAAPAVDPVQE  
KLEKFTASYGLGLDSVIFNMDGTIELRLPSGEVIKKNLSDLIA

## SeqID 191

MKILFVAAEGAPFSKTGGGLDVIGALPKSLVKAGHEAVILPYDMVEAKFGNQIEDVLFHFEVSGWRRQYCGIKKTVLNGWT  
FYFIDNQYYFFRGHVFYGFDDGERFAFFQLAIEAMERIDFIPDLLHVHDYHTAMIPFLKEKYRWIQAYEDIETVLTIHNL  
FQGQFSEGMLGDLFGVGFERYADGTLRWNCNLNWMAKILYANRSTVSPSYAHEIMTSQFGCNLQDILKMESGKVSGIVNGI  
DADLYNPQTDALLDYHFNPQEDLSGKAKNKAQLEQVGLPVRADVPLVGIVSRLTRQKGFVVVESLHILQEDVQIVLLGTGL  
PAFEGAFSWFAQIYPDFLSTNITFDVLAQEIIYACDLFLMPSRFEPGQLSQMMAMRYGTLPLVHEVGLRDTVRAFPNPIEGS  
GTGFSFDNLSPYWLWNTFQTAULDYRNHEDIWRNLQKQAMESDFSWEWTACKSYLDLYHSLVN

## SeqID 192

MEKYFGEKQERFSFRKLSVGLVSATISSLFFMSVLASSSVDAQETAGVHYKYVADSELSSEEKKQLVYDIPTYVENDDETYYI  
VYKLNQNQLAELPNTGSKNERQALVAGASLAAMGILIFAVSKKVKNKTVLHVLVAGIGNGLVSVHALENHLLNYNTDY  
ELTSGEKLPLPKEIISGYTYIGYIKEGKTTSESEVSQKSSVATPTKQQKVVDYNTVNPVFDHPSTVQAIQEOTPVSSSTKPTEV  
VVEKPFSTELINPRKEEKQSSDSQEQLAEHNLETKEEKISPEKETGVNTLNPQDEVLSGQLNKPPELLYREETMETKIDFQE  
EIQENPDLAEGTVRKQEGKLGKVEIVRFSVNEEVSRREVSTTAPSPRIVEKGKTTQVIKEQPETGVEHKDVQSGAI  
VEPAIQPEAVVSDKGEPEVQPTLPEAVVTDKGETEVQPESPDTVVSDKGEPEQVAPLPEYKGNIQEVKPETPVKEKTKEQG  
PEKTEEVPVKPTEEPTVNPNEGTTEGTSIQAENPVQPAEESTTNEKVSPTDSSKNTGEVSSNPSDSTSVEGESNKPEHND  
KNENSEKTVVEEVVPNPNEGTVEGTSNQETEKPVQPAEETQTSNGKIANENTGEVSNKPSDSKPPVEESNQPEKNGTATKPENS  
GNTTSENGQTEPEPSNGNSTEDVSTESNTSNSNGEEIKQENELPDKKVEEPEKTELRLRNVSDLELYSLSNQTYKQHISLEC  
VPSNPNSYFVKVKSFFKDVLVVASISEERKNDKILYKITAKVEKLQOEIESRYKDNTFTYLAKKGEETTNFTSFSNLVKA  
INQNPQSTYHLAASLNANEVELGPDERSYIKDTFTGRLIGEKGKNYAIYNLKKPLFENLSGATVEKLSKNAISGKDDIGS  
LANEAQNNTKIKQVHVDGVLAGERGIGGLAKAEQSSITESFKGRIINTYETTAAYNIGGMVGHLTGDKALLTKSKATVAIS  
SNTNTSDQTVGGLAGLVLVDRDAQIYDQSYAEGDINNVKHFGRVAGVAGNLWDRTSGDVRHAGSLTNVLSDVNTNGNAITGYH  
EMVKDTFSSKANRVNVNTLVKDEVVSKESFEERTMLDASQIAASKAEINPLILPTVEPLSTSGKKDSFSKVAYYQAKRN  
TYKNIKLLPFYNKATIVKYGMLVNENSLLYQKELLSAVMMKDNQVITDIVSNKQTANKLLLHYKDDLSEKLDLKQYQNDFAKI  
AEYSLGNTGLLYTPNQFLYDQTSIIKQVLPDLQKVVDYHSEARLTGJISPNVQKOTELYLEDQPAKTKQQLEDSLKLLSADAG  
LASANPVTEGYLVVDKIKRKRKEALLGLTYLERWYNFSYQGVNVKDLVLYHLDFFGKGNASPLDTLIELGKSGFNNLAKNNVI  
TYGISLASQHGTTDFTSTLEHYRKVFLPNTSNNDWFKSETKAYIVEEKSTIEVTKTQGLAGTKYISIGVYDRITSATWKYRN  
VLPLLTIPERSVVFVISTMSSLGFGAYDRYRSSDHKAGKALNDFVEENARETAKRQRDHYDWYRILDDNAREKLYRNILLYDA  
YKFGDDNTVKGATEVADFDNPNPAMQHFFGPVGNKVGHNQHGYATGDAVYMGYRMLDKDGAITYTHEMTHDSQDQIYLGGY  
GRRSGLGLPEFFAKGLLQAPDHPPDATITINSILKHSKSDSTESRRLQVLDPTTRFNNADDLKQVHNMFVVYMLEYLEGENSI  
LKLDTNQKQQLRKVTNEYHPDPDGKVKVYATNVVRNLTVEEVERLRSFNDLIDNNILSSREYASGKVERNGYFTIKLFAPYIA  
ALSNDIGTPGDLMGRRRIAYELLAAKGFKDCMVPIISNQYEEAKQKGKTIINLYGKTRGLVTTDDLVLEKVFNNQYHTWSEFKKA  
MYQERQDQFDRLNKVTNFNTQPWQTFAKKTTSSVDELQKLMDAVRKDAEHNYYHWNNTNPIDSEVHKLKRAIFKAYLDQI  
NDFRSSIFENKK

## SeqID 193

MKINKKYLGSVAVLALSVCSYELGRYQAGQDKKESNRVAYIDGDQAGQKAENLTPDEVSREGINAEQIVIKITDQGYVTSH  
GDHYHYNGKVPYDAIISEELLMKDPNYQLKDSDIVNEIKGGYVIKVNKGYYVLKDAAHADNIRTKEEIKRQKQERSHNHNS  
RADNAVAARAQGRYTTDDGYIFNASDIIEDTGDAYIVPHGDHYHYIPKNELSASELAAAEEAYWNGKQGSRPSSSSSYNANP  
QPRLSENHNLTVTPTYHQNQGENISSLLRELYAKPLSERHVESDGLIFDPAQITSRTARGVAVPHGNHYHFIPYEQMSELEK  
IARIIPRLRYRSNHWVPSRPEEPSQPTPEPSPPQAPSNPIDEKLVKEAVRKVGDGYVFEENGVSRYIPAKDLSAETAAGI

DSKLAKQESLSHKLGTKTDLPSSEDEFYKAYDLLARIHQDLDNKGRQVDFEALDNLLERLKDVSSDKVVLVEDILAFLAF  
IRHPERLGKPNQAQITYTDDEI1QVAKLAGKYTTEDGYIFDPDRITSDEGDAYVTPHMTHSHWIKKDSLSEAERAQQAYAKEKG  
LTPPSTDHQDSGNTEAKGAEAIYNRVKAACKVPLDRMPYNLQYTVEVKNGSLIIPHHDHYHNIKFEEFDEGLYEAPKGTYLEC  
LLATVKYYVEHPNERPHSDNGFGNASDHVQRNKGQADTNQTEKPSEEKPQTEKPEEETPREEKPKPESPKPTEEPEESF  
EESEEPQVETEKVEEKLREAEDLLGKIQDPTIKSNAKETLTGLKNMNLFGTQDNNTIMEAEEKLLALLKESK

SeqID 194

LILSVCSYELGLYQARTVKENNRVSYIDGKQATQKTENLTPDEVSREGINAEQIVIKITDQGYVTSHGDHYHYNGKVPYDA  
IISEELLMKDPMYKLKDEDIVNEVKGGYVTKVGDGKYYVYLKDAAHADNVRKKEEINRQKOEHSQHREGGTPRNDGAVALARSC  
GRYTTDGYIFNASDIIEDTGAYIVPHGDHYHYIPIKNELSASELAAAEEAFLSGRGNLNSNSRTYRRQNSDNTSRINWVPSVSN  
PGTTNTNTSNNNSNTSQASQNSNDISLLKQLYKLPLSQRHVESDGLVFDPQITSRTARGVAVPHGDHYHFIPYSQMSELEER  
IARIPIPLRYRSNHWPDSRPEQPSQOPTPEPSPGPQAPNLKIDSNSLVSQVRKVGEFYFEEKGISRYVFAKDLPLSETVK  
NLESKLSQESVSHTLTAKKENVAPRDQFYDKAYNLLTEAHKALFENKGRNSDFQALDKLLERLNDESTNKEKLVDDLLAFL  
APITHPERLGKPNQSIEYTEDEVRIAQLADKTTSDGYIFDEHDIIISDEGDAYVTPHMGSHWIGKDSLSDKEVAAQAYTKE  
KGILPPSPDADVANKPTGDSAAAIYNRVKGEKRIPLVRLPYMVEHTVEVKNGNLIPHDKHYHNIKFAWFDDHTYKAPNGYTL  
EDLFATIKYYVEHPDERPHSDNGWGNASEHVLGKKDHSEDPNKNFKADEEVEETPAEPEPVQVETEKVEAQLKEAEVLLAKV  
TDSSLKANATELAGLRNNLTLQIMDNNNSIMAEEKLLALLKGSNPSSVSKEKIN

SeqID 195

MPVEIKTTKIEHPKIIYAYTTPVTNEGWIKIGYTERDVTQRIKEQTHAHIATDVLWTGDAAYTEEPDKGKTFKDHDFFHFL  
SFHDVERRPKTEWFYFNGTPESKKNLFDFKVQHDLGQPGKGQDYTLRQEQQEEAVAKTLAYFQEHAGGKFLWNAKPRFGKTL  
STYDLARRMEAVNVLIVTNRPAIANSWYDDFETFLAGQTTYKFVSESDLSKSRPILSRQEFGLGILADDVRQLAFISLQDLKGS  
VYLGGEHDKLKWVTDLHWDLVIDEAHEGVDTFKTDQAFNKKIRRNFTLHLSGTSFKALAKGDFTEEQIYNWSYADEQAAKYSW  
SLEQEENPYESLPQLNLFYQMSQMIKELEKGAQIDGENIDYVFDLSEFFATDDKGKFIHEHDRVNWLDLSSNEKYPFST  
KELRNELKHTFWLLERVASAKALKALLEHPIYENYETVLAAGDGRMSEEDDKVVLKSLDLVRKAIATEENDKTITLSSVGQLTTG  
VTIPEWTGVMLMSNLKSPALYMQAAFRQNPYSWSDNKGHNFRKERAYVDFAPERTLILFDEFANNLLVTAAGRGTSA TRE  
ENTRELLNFFPIIAEDRAGKMVEIDAKAVLTTPQIKAREVLRKGFMNSLLFDNISGIFQASQTVDILNELPVEKEGVQDS  
SDLLDFSDVTVDDEGNAVVDHEIVVNQQMRLFGEKVYGLGESVAELVTKDEERTQKQLVNDLSKTVSSVIVEELKADYSLKTR  
ETEQIKKQITATLENEIRKNDIERKISEAHIKQELQQQLKEANDKAQKDKIQEDLEKRLEENKLHKEKLEQTLKKEVEKMPE  
KFIEQVEIKRVEQLKQSAQDEIRDHLRGFARTIPSIMAYGDQTLTLDNFDAFVPEHVFEVTGITIDQFRYLRDGQDFAGH  
LFDKATFDEAIQEFLRKKKELADYFKDQKEDIFDYIIPPKTNQIFTPKRVVCRMVDDLEKENPGIFDDPSKTFIDLYMKSGLY  
IAELVKRLYNSNGLKEAFFPNPEERLKHLERKQVYGFAPSEIIYNIISTNFIFGNLSKDISRKNFVLADTIPAAKEGSIQKLVDS  
YFENN

SeqID 196

MKKILIVDDEKPISDIIFKFNMTKEGYEVVATFNGREALEQFEAEQPDIIILDMLPEIDGLEVAKTIRKTSSVPIMLSAKDS  
EFDKVIGLELGADDYVTKPFSNRELQARVKAALLRRSQMPVQEDSKPQPIQIGDLEIIPVDAYVAKKYGEELDLTHREFEL  
LYHLASHTGQVITREHLLLETWVGYDYFGDVRTDVDVRRRLREKIEDTPSRPEYILTRRGVGYYMRNNA

SeqID 197

MKKKFLAFLLLILFPIFSLGIAKAETIKIVSDTAYAPFEFKDSDQTYKGIDVDIINKVAEIKGWNIQMSYPGFDAAVNAVQAGQ  
ADAIMAGMTKEREVKFTMSDYYDTKVIATTKSHKISKYDQLTGKTVGVNGTAAQRFLETIKDKYGFTIKTFDTGDLMN  
NSLSAGAIDAMMDDKPVIYEAINQGQDLHIEMDGEAVGSFAFGVKKGSKYEHVLVTEFNQALSEMKKDGSLLDKIICKWTASSSS  
AVPTTTLAGLKAIIPVKAKYIIASDSSFAPFVQFQNSSNQYTGIDMELIKAIKDQGFEIEITNPQFDAAISAVQAGQADGIIA  
GMSVTDARKATFDFSESYYTANTILGVKESSNIASYEDLKGKTVGVNGTASQFLTENQSKYGYKIKTFADGSSMYDSDLNTG  
AIDAVMDDEPVLKYSISQGQKLKTPISGTFIGETAFAVKKGANPELIEMFNNGLANLKANGEFQKILDKYLASESSTASTSTV  
DETTLWGLLQNNYKQLLSGLGITLALALISFAIAIVIGIIFGMFSVSPYKSLRVISEIFVDVIRGIPMLAIFIWGIPNFI  
ESITGQQSPINDFVAGTIALSNAAYIAEIVRGQIQAQPVGQMEAASRLSLGISYKTMKIIIPQATKMLPNFVNQFVIALK  
DTTIVSAIGLVELFQTGKIIARNYQSFKMYAILAIFYLVITLLTRLAKRLEKRIR

SeqID 198

MAFESLTERLQNVFKNLRKKGKISESDVQEATKEIRLALLEADVALPVVKDFIKKVRERAVGHEVIDTLPNAQQIJKIVDEEL  
TAVLGSDTAEIIKSPKIPTIIMMVGLQGAGKTTFAGKLANLKEENARPLMIAADIYRPAIIDQKTLGQQIDVPUVFAVGTE  
VPAVEIVROGLEQAAQTNHNDYVLIDTAGRLQIDEMLMELRDVKALAQPNEILLVVDAMIGQEAANVAREFNAQLEVTGVILT  
KIDGDTRGGAALSVRHITGKPIKFTGTGEKITDIEFHDRMSSRILGMGDMILTLIEKASQEYDEQKALEMAEKMRNTFDFN  
DFIDQLDQVNQNMGPMEDLLKMIQGMANNPALQNMKVDERQIARKRAIVSSMTPEERENPDLNPSRRRIAAGSGNTFVEVNK  
FIKDFNQAKQLMQGVMSGDMNKKMMQMGINPNLPLKNMPNMGMDMSALEGMMGQGGMPDLSALGGAGMPDMSQMFGGGLKGK  
IGEFAMKQSMKRMANKMKKAKKKR

SeqID 199

MSQIWTKEKFISQVQGGVIVSCQALPGEALYNEEFSLMPFMAKAALEAGAVGIRANSVRDIKAIQKVVDLPIIGIJKRDYPPQ  
EPYITATMKEVDELVECGTTVIAPDFATLPRYDGLVVSFPIKKIKEKYPNQLLMADVSNLDEGLYAFKSGVDFVGTTLGYS  
TSVQSDEPDFELMKKLADEFNIPVIAEGKIHYPEQLKKAYSLGVTSSVIGGAIIRPKETAQRFINV

SeqID 200

MRYLTAEGSHGPRLTAAIEGIPAGLPLTAEDINEDLRRRQGGYGRGGRMKIENDQVVFSTSGVRHGKTTGAPITMDVINKDHQK  
WLDIMSAEDIEDRLKSKRKITHPRPGHADLVGGIKYRFFDLRNSLERSARETTMRVAVGAVAKLLAELDMEIANHVVVFGG  
KEIDVPENLTVAEIKQRAAQSEVSIVNQEREQEIKDYIDQIKRDGDTIGGVVETVVGVPVGLGSYVQWDRKLDARLAQAVVS

INAFKGVEFGLGFAGYRKGSQVMDEILWSKEDGYTRRTNNLGGFEGGMNTGQPIVVRGVMKPIPTLYKPLMSVDIETHEPYK  
ATVERSDPTALPAAGMVMEA VVATVLAQEILEKFSSDNLEELKEAVAKHRDYTKNY

SeqID 201

MVVMNRIRVSKRVEKKLAKGLVLLAESDLENVNLKDQEVEVQGOEGNFLGTAYLSQQNKGLGWFISKDKVAFNQAFFETLFRK  
AKEKRNAYYQDDLTAFRLFNQEGDGFGLTVLDLYGDIYAVFSWNSVYQIRQTISEAFRQVFPEVLGAYEKFIRFKGLDYESA  
HVGQEA P DFFNVL ENGVLYQVFMDGLMTGIFLDQHEVRGSLV DGLAMGKSLLNMFSYTA AFSVAA MGGASHTTSVDLAKR  
SRELSQAHFQANGLSTDEHRFIVMDVF BYFKYAKRKDLTYDVIVLDPPSFARNKKQTF SVAKD YHKLISQSLEILNP GGI IIA  
STNAANVS RQKFTEQIDKGFA GR SYQILNKYGLPADFAYN KDESSN YLKVIS MKVSK

SeqID 202

MTKTLKRPEV LSPAGTLEKLKVAVQYGADAVFIGGQAYGLSRAGNFTFEQMEGVQFAAKYGA KVVAANMVMHEGNEAGAG  
EWFRKLR DIGIAAVIVSDPALIMIAVTEAPGLEIHLSQASATNYETLEFWKELGLTRVVLAREVSM EELAEIRKRTDVEIEA  
FVGAMCISYSGRCTLSNHMSMRDANRGCGSQCRWKYDLYDM PFGKERKSLIQGEIPEEFSMSAVDMSMIDHIPDMIENGVD  
LKIEGRMKSICHVSTVTNCYKA A VDAYLESPEKFEAIKQDLVDEM WKVAQRELATGFYYGTPSENEQLFGARRKIPEYKFVAE  
VVSYDAAQTATIQR QRN VINEGDQ FVYGP GFRHFETYIEDLHD AKNKIDRAPNPMELLT IKVQPQVQSGDMVR ALKEGLIN  
LYKEDGTSVTVRA

SeqID 203

MNTYQLNNGVEIPV LGF GTFKAKD GEEA YRAV LEALKAGYRHIDTA AYQNEESVGQAIKDSGV PREEMFVTTKLWNSQ QTYE  
QTRQALEKSIEKLGLDYL DLYLIHWPNPKPLREND AWKTRNAEVW RAMEDLYQEGKIRAIGVSNFLPHLD ALLETATIVPAV  
NQVRLAPGVYQDQVVAYCREKGILLEAWGPFGQGELFD SKQVQEIAANHGKSV A QIALAWS LAEGFLPLPKS VITSRIQANLD  
CFGIELSHEERETLKTIAVQSGAPR VDDVDF

SeqID 204

LSEKSREEEKLSFKEQILRDLEKVKGYDEV LKEDEAVVRTPANE PSTEELMADSLSTVEEIMRKAPTVPT HPSQGV PASPADE  
I QRETPGVPSHSQDPVSSPAEESGSRPGPVRPKLRENEYNETPTRVA VSYTTAEKKAQAGPETPTPATETVDIIRDTSR  
RSRREGAKPVPKKEKKSHVKAFVISFLVFLALLSAGGYFGYQVLD SLLPIDANSKKYVTVG IPEGNSVQ EIGTTLEKAGLV  
KHGLIFSFYAKYKNYTDLKAGY YNLQKSMSTEDLLKELQKGGTDEPQEPV LALT IPEGYTLQIAQAVGQLQGDFKESLTAE  
AFLAKVQDET FISQAVAKYPTLLES LPVKD SGARYRLEG YLFPAT YIKE STIESLIDEMLAAMDKNLSPYX STIKSKNLT  
NELLTIASLVEKEGAKTEDRKLIA GVFYRNLRDMLPNSNIAILYQAQKLGQNI S LAEDVAIDTNIDSPYVNVYK NVGLMPGP  
DSPSLDAI ESSINQTKSDNLYFVADVTEGKVYYANNQEDHDRNVAEHVNSKLN

SeqID 205

MKQERFPLVSDDEVMLTEMPVMNLYDES DLI SNIKGEYRDKNYLEWAPIAEEKPVKPIEKQVEKPKAPLGVKKEGKSYA EVA  
REARADLKKKRSANYLTQDFSLARRHSQPSLVRQGNQPTAPFQKENPGEFVKYSQKL TQSHYI LAEVHSIPTKNEEV SAPA  
PKKNNYD FLKKSQIYNKKSQTEQERRVAQELNLTRMTE

SeqID 206

MKKS KSKYLTLAGLVLGTGVLLSACGNSSTASKT NYVYSSD PSSL NYLAEN RAATS DIVANLV DGLLENDQVGNII PSLAED  
WT VSQDG LTY TYKLRKDAK WFTSEGE EYAPV TAQDFVT GLQYAADKKSEALY LVQDSVAGLDDYITGKTSDFSTVG VKALDDQ  
TVQYTLV KPELYWN SKTLATI LF PVNADFLKSKGD FGKADPSSILYNGPFLMKALVSKSAIEYKKNP NYWD AKNVFV DDKV  
TYYDGSDQESLERNFTAGAYTTARLF PNSSS YEGIKE KYKNNI IYSMQN STSYFFN FNLD RKS YN TSKT SDIEKKSTQEA  
V L NKNFRQAINFA FDR TSYGAQSEGKEGATKILRN L VVPPNFVSIKGKDFGEV VASKMV NYGKEWQG INFADGQD PYYNPEKAKA  
KFAEAKKELEAKGVQFPIHLDKT VEVDKVG I QGVSSIKQSIESVLGSDNVV DIOQLTSDEF DSSGYFA QTAAQKDYDLYHG  
GWGP DYQDPSTYLDIFNTNSGGFLQNLGLEPGEANDKAKAVGLDV YTQMLEE ANKEQDPAKRYE KYADI QAWLIDSSLVLP  
SRGGTPSLRR TVPFAAAYGLTGTGVESYKYLKVQDKIVTTDEYAKAREKWLKEE SNKKAQEE LAKHVK

SeqID 207

VEQHSDVCYIFYRRERLKT KIGL ASI C ILLGLAT SHVAANETEVAKTSQDTTASSS SEQNQSSNKTQTS AEVQ TNAAAHWGD  
YYVKDDGSKAQSEW IFDN YYKAWFYINSDGRY S QNEW HGNYYL KSGGYMAQNEWIYDSNYK SWFYL KSDGAYAHQEWQ LIGNK  
WYYFKKGYMAKSQWQGSYFLNQGAMM QNEWLYD PAYSAYF YL KSDGTYANQEWQKVGGKWWYF KKKGYMAR NEWQGNYYL  
GSGAMATDEVIMDGTRYIFAAS GELKEKK D LNV GWV H RDGKRYFFNNREEQVGTEHAKKVIDI SEHN GRINDWKKVIDENEVD  
GVIVRLG YSGKEDKELAHNI KELNRLGIPYGVYLYTAENETDAESDAKQTI ELIKKYNM NL S YPIYYD VENWEYVN KSKR  
PDTGTWVKIINKYMDTMKQAGYQNVYVSYRSLLQTRLKHPDILKHVNWVAAYTALEWENPHYS GKGWQY TSSE YMKG I QG  
RVDV SVWY

SeqID 208

MAKEP WQEDIYDQEE SRAERRH RHN GGADRMANRILT ILASIFFVIVV MVIVL IYLS SGGS NR TAALK GFHD SDAS VVQISS  
SSSSQPEQSSEPESTSSSSEE AANPEGTIKV LAGEGEAA IAARAGISIAQ LEALN PGH MATG SWFAN PG DV KIK

SeqID 209

MPITSLEI KDKT FGT RFRG FDPEEVDEF LDI VVRD YEDL VRAN HDK NLR IK SLEER LS YFDEIKDSL SQSVLIAQDTAERVK  
AAHERSNIIHQAEQDAQRLLEEAKYKANEILRQATDNACKVAVETEELKNKSRV FH QRLKSTIESSQLAIVESSDW EDILRPT  
ATYLO TSDEAFKEVSEVLGEPIPAPIEEEPIDMTRQFSQAEMAELQARIEVAD KELSEFEAQIKQEV EAPTPV VSPQV EEEP  
LLIQLAQC MKNQK

SeqID 210

MSLKDRFDRFIDYFTEDEDSSL PYEKRDEPVFTSVNSSQEPALPMNQPSQSAGTKENNITRLHARQQELANQSQRATDKVIIID  
VRYPKRYEDATEIVDILLAGNESILIDFQYMTEVQARRCLDYLDGACHVLAGNLKKVASTMYLLTPVNVIJVVEDIRLPDEDQQ  
GEFGFDMKRNVR

SeqID 211

MSDLKKYEGVIPAFYACYDDQGEVS PERTRALVQYFIDKGVQGLYVNGSSGECIYQSVEDRKLILEEVMAVAKGKLTIIIAHVA  
CMNTKDSMELARHAESLGVDIAITIPPIYFRLPEYSVAKYWNDISSAAPNTDVYIYNIPOLAGVALTPSLYTEMKNPRVIGV  
KNSSMPVQDIQTFSVSLGGEDHIVFNGPDEQFLGGRLMGARAGIGGTYGAMPEFLKLNQLIADKDETARELQYAINAIIGKL  
TSAHGNMYGVIKEVLKINEGLNIGSVRSPLTPVTEEDRPVVEAAAALIRETKERFL

SeqID 212

MNKRGGLYSKLGISVVGISMLLGVPTLIHANELNYGQLSISPIFOGGSYQLNNKSIDISSLILDKLSGESQTVMKFKADKPNS  
LQALFGLSNKAGFKNNYFSIFMRDSDGEIGVEIRDAQKGINYLSRPASLWGKHKGQAVENTLVFVSDSKDKFTYTMYVNGIEV  
FSETVDTFLPISNINGIDKATLGAVNREGKEHYLAKGSIDEISLFNKAISDQEVTIPLSNPFOLIFQSGDSTQANYFRIPL  
YTLSSGRVLSSIDARYGGTHDSKSKINIAITSYSSDDNGKTWSEPIFAMKFNDYEEQLVYWRDNKLKNSQISGSASFIDSSIVE  
DKKSGKTILLADVMPAGIGNNANKADSGFKEINGHYLKLKNGDNDFRYTRENGVYVNETTNKPTNTYTDKYEVLEGGK  
SLTVEQSYVDFDSSGLRERHNGKQVPMNVFYKDSLFKVTPTNYIAMMTTSQNREGESWEQFKLPPFLGEKHNGTYLCPGQGLAL  
KSSNRLLIFATYTSGELTYLISDDSGWTWKSSASIPFKNATAEAQMVELRDGVIRTFRTTGKIAYMTSRDGETWSKVSYI  
DGIQQTSYGTQVSAIKYSQLDGEAVILSTPNRSRKGGQLVVGVLVNKEEDSIDWKYHYDIDLPSYGYAYSAITELPNHHI  
GVLFEKYDSWSRNELHLSNVVQYIDLEINDLTK

SeqID 213

MNRSVQERKCRYSRKLSVGAVSMIVGAVVFGTSPVLAQEGASEQPLANETOLSGESSTLTDTEKSQPSSETELSGNKQEGER  
KDKQEEKIPRDYYARDLENVETVIEKEDVETNASNGQRVDSLSELDLKKLENATVMEFKPDAKAPAFYNLFVSSATKKDE  
YFTMAVYNTATLEGRGSDGKQFYNNYNDAPLKVKPGQWNSVTFVKEPKTAELPKGRVRLYVNGVLSRTSLRSGNFIKDMPDV  
THVQIGATKRANNTVWGSNLQIRNLTVYNRALTPEEVQKRSQFLKRSDEKKLPEGAALTEKTDIFESGRNGNPNDGKIKSYR  
IPALLKTDKGTLIAGADERRLHSSWDGDIGMVIRRSEDNGKTWGRVTITNLRDNPKASDPSIGSPVNIDMVLVQDPETKRIF  
SIYDMFPEGKGIFGMSSQKEEAYKKIDGKTYQILYREGEKGAYTIRENGTVYTPDGKATDYRVVVPVVKPAYSDKGDLYKGDO  
LLGNIYFTTNKTSFRIAKDSYLMWSYSDDGKTWSAPQDITPMVKADWMKFLGVGPCTGIVLRNGPHKGRILIPVYTTNNVS  
HLDGSQSSRVIYSDDHGKTWHAGEAVNDNRQVGDQKIHSSTMNRRRAQNTESTVQLNNNGDVKLFMRGLTSDLQVATSKDGGV  
TWEKDIKRYPQVKDVYVQMSAITHMHEGKEYIILSNAGGPKRENGMVHLARVEENGELTWLKHNPQIKGEFAYNSLQELGNGE  
YGILYEHTEKGQNAUTLSFRKFNWEFLSKNLISPTEARNDGQRRDGQRSYWLGVRLRSIGQQGSNPSIGKWNNSDFPNPVQDLV  
VCSRGRYRTGNYWYSRKHRKYASSCKSSRCQSSWRSKWQSSGASSRIYGSWYRASCNRRVGIFACNSYYKKRILYLOSSCS  
AGTSNRKQGEPPSFRTNSFLPWSVYAREKERT

SeqID 214

MIQIGKIFAGRYRIVKQICRGGMADVYLAKDLILDGEEVAVKVLRTNYQTDPIAVARFQREARAMADLDHPHIVRITDICEED  
GOQYLAMEYVAGLDLKRYIKEHYPLSNEEAVRIMGQILLAMRLAHTRGIVHRLDKPQNILLTPDGTAKVTDFGIVAVAFATSL  
TQTNMSLGSVHYLSPEQARGSKATVQSDIYAMGIIYEMLTGHIPYDGDASAVTIALQHFQKPLPSVIAENPSVPQALENVIIK  
ATAKKLTNRYSVSEMYVDSLSSLSYNRRNESKLIFDETSKADTCKLTKVQSSTLTSIPKVOAQTEHKSIKNPSSQAVTEETYQ  
PQAPKKHFRKMRYLILLASLVLVAASLIWLSRTPATIAIPDVAGQTVAEAKATLKKANFEIGEEKTEASEKVEEGRIIRTDP  
GAGTGRKEGTKINLVVSSGKQSFQISNYVGRKSSDVIALEKKVPDNLKIEEEEESNESEAGTVLKQSLPEGTTYDLSKATQ  
IVLTVAKKATTIQLGNYIGRNSTEVISELKQKKVOPENLIKIEEEESESSEPTIMKQSPGAGTTYDVSKPTQIVLTVAKKVT  
VAMPSYIGSSLEFTKNNLIQIVGIKEANIEVVEVTTAPAGSAEGMVVEQSPRAGEKVDLNKTRVKISIYKPKTTSATP

SeqID 215

MTKLIFMGTPDFSATVLKGLLDDRYEILAVVTQPDRAVGRKKVIQETPVKQAAKEAGLSIYQPEKLSGSPEMEDLMKLGADG  
IVTAAFQFLPSKLLDSMDFAVNWHASLLPRHGGAPIHYALIQGDEEAGVTIMEMVKEMADGMISRRSIPITDEDNVGTLF  
EKLALVGRDLLLTLPAYLAGDIKPEPQDTSQVTFSPNIKPEEEKLDWNKTNRQLFNQIRGMNPWPVAHTFLKGDRFKIYEAL  
PVEGQGNPGEILSIGKKELEVATAEGALSIKQVQAGPKKMDIASFLNGVGRRTLTVGERFGD

SeqID 216

VFRRLGQDFQLRKVKKILKQINALKGMSSLSQELVAKTVEFRQLSEGESLDDILVEFAVVREADKRILGMFPYDVQVMG  
AIVMHYGNVAEMNTGEGKTLTATMPVYLNAFSGEGVMVTPNEYLSKRDAAEMGQVYRFLGLTIGVPTEDPKKEMKAEEKKL  
IYASDIIYTTNSNLGFYLNNDNLASNEEGKFLRPFNVIIDEIDDLILDSAQTPLIAGSPRVQSNYYAIIDTLLVTTLVEGED  
YIFKEEKEEWLTTKGAKSAENFLGIDNLYKEEHASFARHLVYAIRAHKLFTKDQDITYTRGNEVMLVDKGTRGRLMEMTKLQGG  
LHQATEAKEHVKLSPETRAMASITYQSLFKMFNKISGMGTGKVAEKEFIETYNNMSVVRIPTNRPRQRIDYPDNLYITLPEKV  
YASLEYIKYHAKNPLLTVFVGSVEMSQLYSSLLFREGIAHNVLNANNAAREAQIISESGQMGAUTVATSMAGRGTIDIKLGKG  
VAELGGYLIVIGTERMESQRIDLQIRGRGSGRQGDPGMSKFFVSLLEDVICKFGPSWHKKYKDQVQDMTQPEVLUKGKRYRKLV  
EKAQHASDSSAGRSARQTLLEYAESMNIQRDIVYKERNRLIDGSRDLEDVVVDIITERYTEEVAADHYASRELLFHIFTNISFH  
VKEVPDYIDVTDKTAVERSFMKQVIDKELSEKELLNQHDLYEQFLRLSLLKAIDDNWVEQVDYLQQLSMAIGGQSASQKNPIV  
EYYQEAYAGFEAMKEQIHADMVRNLLMGLVEVTPKGEIVTHFP

SeqID 217

MTETVEDKVSHSITGLDILKGIVAGAVISGTVATQTKVFTNESAVLEKTDALATNDTUVLGTISTSNSASSTSLSASE  
SASTSASESASTSASTSASESASTSASTSISASSTVVGQSTAATEATAKKVEEDRKKPASDYZASVTNVNLQSYAKRR  
KRSVDSIEQLLASIKNAAVFSGNTIVNGAPAINASLNIAKSETKVYTGEGVDSYRVPIYYKLKVTNDGSKLTFTYTVTVNP  
KTNDLGNISSMRPGYISIYNSGTSTQTMILGSDLGKPSGVKNYITDKNGRQVLSYNTSTMTCQSGYTWNGAQMNGFFAKKG

SeqID 218

MSNEKNTNTNVEKKDATVVAHEIKGELTYEDKVIQKIIIGLSLENVSGLLGIDGGFFSNLKEKIVNSDDVTSGVNVEVGKTQVZ  
VDLNVIVEYQKNVPALYSEIREIVSSEVAKMTDLEIVEINVNVDIKTKEQHEADSVSLQDRVSDVAESTGEFTSEQFEKAK  
GLGSGFSTVQEKGVEAVKGAAANGVVSHENTPRVN

SegID 219

MTKEKNVLTARDIVVEFDVRDKVLTAIRGVSLVEGEVLALVGESGSGKSVLTKTFTGMLEENGRIAQGSIDYRGQDLTAJ  
SSHWDQEIRGAKIATIFQDPMTSLDPIKTIGSQITEVIVKHQGKTAKEAKELAIDYMNKVGIPDADRRFNEYPFQYSGGMRJ  
RIVIAIALACRPDVLLICDEPTTALDVTIQAQIIDLLKSLQNEYHFTTIFITHD LGVVASIADKVAVMYAGEIVEYGTVEEVF  
DPRHPYTWSLLSSLIPOLADDKGDLYSIPGTPPSLYTDLKGDAFALRSDYAMQIDFEQKAPQFSVSETHWAKTWLLHEDAPKV  
KPAVIANLHDKIREKMGFAHLAD

SegID 220

MKKNRVFATAGLVLIAAGVLAACSSSKSSDSSAPKAYGYVYTADPETLDYLISSKNSTIVVTSNGIDGLFTNDNYGNLAPAVA  
 EDWEVSKDGLTYTYKIRKGKVWFTSDGEAEYAEVTAKDFVNGLKHAADKKSEAMYLAENSVKGLADYLSGTSTDFSTVGVKAVD  
 DYTLCQYTLNQPEFWNSKLTYSIWFPLNEEFETSKGSDFAKPTDPTSLLYNGPFLLKGLTAKSSVEFVKNEQYWDKENVHLDT  
 INLAYYGDSDQESLERNFTSGAYSYARLYPTSSNSKVAEEYKDNYYTQSGSGIAGLGVNIDRQSNTSKTIDSEKVATKK  
 ALLNKDFRQALNFALDRSAYSQAQINGKDAALAVRNLFVKPDFVSAGEKTFGDLVAAQLPAYGDEWKGVNLADGQDGLFNADK  
 AKAFAKAKKALEADGVQFPIHLDVFDQASKNYISRIQSFQSVETVLGVENVVVDIQQMTSDEFLNITYAANASSEDWDV  
 SGGVSWGPDYQDPSTYLDILKTTSETTKTYLGFDNPNSPSVQVGLKEYDKLVDEAARETSIDLNVRYEKYAAAQAWLTDSSL  
 FIPAMASSGAAPVLSRIVPFTGASAQTGSKSDVYFKYLKSQDKVVTKEEYEKAREKWLEKEAESNEKAQKELASHVK

SeqID 221

MEINVSKLRTDLPQVGVPYRQVHASTGNPHSTVQNEADYHWRKDPELGFSHIVGNGCIMQVGPVDNGAWDVGGWNAETY  
 AAVELIESHSTKEEFMTDYRLYIELLRNLADAEGLPKTLDTGSLAGIKTHEYCTNNQPNHSDHDPYPYLAKWGISREQFKH  
 DIENGLTIETGWQKNDTGYWVYHSQSYPKDKFEINGTWYFDSSGYMLADRWRKHTDGNWYWFDSGEMATGWKKIADKWKY  
 YFNEEGAMKTGWVVKYKDTWYLLDAKEGAMVSNAFIQSAQDTGWYVYKLPDGTADKPEFTVEPDGLITVK

SeqID 222

MKKKYWTLAILFFCLFNNSVTAQEIPKNLDGNITHQTSESFSSESDEKQVDYSNKNQEEVDQNKFRIQIDKTELFTVTTDKHLE  
 KNCKCLELEPQINNDIVNSESNNLGEDNLDNKIKENVSHLDNRGGNIEHDKDNLESSIVRKYEWIDKVTGGGESYKLYSKS  
 NSKVSTAILEDGVDLQNTGLLKNLSNHSKNYVPNKGYLKEECEGIISDIQDRLGHGTAVVAQIVGDDNINGVNPVHNINVY  
 RIFGKSSASPDWIVKAIFDAVDDGNDIINLSTGQYLMIDGEYEDEGTNDFTFLKYKKAIIDYANQKGVIIVAALGNDSLNVSNQ  
 SDLLKLISSRKVRKPGLVVDVPSYFSSTISVGGIDRLGNLSDFSNKGDSDAIYAPAGSTLSLSELGLNNFINAEKYKEDWIF  
 SATLGGTYLYGNSFAAPKVSGAIAMIIDKYKLKDQPYNMFVKFWKKHYQ

SeqID 223

MKKDELFEFGYLIKSADLRQTRAGKNYLAFTFQDDSGEIDGKLWDAQPHNIEAFTAGKVVMKGRREVYNNTPVNQITLRLP  
 QAGEPNPDADFKVSPVDVKEIRDYMSQMIKLENPVWQRIVRNLYTKYDKEFYSYPAAKTNHHAFETGLAYHTATMVRLADA  
 ISEVYQPLNKSLLYAGIMLHDLAKVIELTGPDQTEYTVRGNLLGHIALIDSEITKTVMELGIDDTKEEVVLLRHVILSHHGL  
 EYGPSPVRPRIMEAIIHMIDNLDAASMMMSATALALVDKGEMTNKIFAMDNRSFYKPDLD

SeqID 224

VТИLGKDTVQOSAKGESVTQEATPEYKLENTPGGDKGNTGSSDANANE GGGSQAGGSHTGSQNSAQSKQLOATEKESAK  
 NAIEKAADKQDEIKGAPLSDKEKAELLARVEAEKQAALEKETENAKTMEDVKEAFTIGVQAIAMVTVPKRPVAPNAAPKTTSA  
 PQATAGTMQDVTVYQSPAGKQLPNTGSASSAALASLGLVVATSGFALLGRKTRRRK

SeqID 225

MNADDVTIYDVAREAGVSMATVSRVNGNKNVKENTRKVLEVIDRLDYRPNAVARGLASKTTTGVVPIPNITNGYFSSLA  
 KGIDDIAEMYKYNIVLANSDEDNEKEVS VVNTLFSKQVDGIIYMGYHLDKIRSEFSRSRTPIVLAGTVDEHQLPSVNIDYK  
 QATIDAVSYLAKENERIAFVSGPLVDDINGKVRLLVGYKETLKKAGITYSEGLVFESKSYDDGYALAERLISSNATAAVVTGD  
 ELAAGVINGLADKGVSVPEDFEIITSDDSQISRFTRPNLTIAQPLYDLGAISMRLTKIMHKEELEEREVLLPHGLTERSST  
 RKRK

SeqID 226

MKKKLVFPNLFWWGAAASSGPQTEGQYKGVHENVMDYWFKTHPEDFFDNGPLVASNFFHTYTEDFHLKMEIGVNSFRTSIOWS  
 RLIKNLLETGEPDPKGIAFYNAIIIEEAKNQMDLVMNLHHFDLPLVELLQKYGGWESKHVVELFVKFAKTAFTCFGDKVHYWTTF  
 NEPMVIEPAGCYLYAFHYPNLKGKGKEAVQVYIYNLNLASAKVITQLYRSLELDKGIGIILNLTPAYPRNSNSPEDLEASRFTDDFF  
 NKVFLNPAVKGTFPERLVQLERDGVLWSHTEKELOLQMLKSNTVDFLGVNYYHPKRVQAQANPEEYQTPWMPDQYFKEYEWLER  
 RMNPYRGWEIFPKAIYDIAMIVKEEYGNIPWFISENGMGVENEARFIDENGVIDDVYRIEFYEEHLRWLHKAEEGSHCFGYH  
 AWTAFDCWSNNAYKNRYGFISVDLETQKRTIKSSGRWYRKVDNNNGFEVEIEE

SeqID 227

VENLTNFYEKYRVYLTRPRLELLAVVTIVCAVLVFFLNI PGKGVLKLDNGTIVYDGLSLVRGKMNGQGTITFQNGDQYTGGFN  
 NGAFNGKGTQSKEGWTYEGDFVNGQAEKGKLTTEQEVVYEGTFKQGVFQQK

SeqID 228

MLNKIRDYLDFAGLQYRNPDKAGAEREKMLAFRHGQEARVKFTELAKAFQASHPEWQLQQTTSQWMNQAQRLRPHFWVYQLQD  
 GQVTEPMALRLYGTSTDFGISLEVSFIERKKDEQTLGKQAKVLDIPTVKGIYLYLTSNGQSORWEANEERRTLREKVRSE  
 VRKVLVVDVPMTENSSEEIIVEGLLKSYSKILPYYLATRK

SeqID 229

MVQNSCWQSKSHKVKAFTLLESLLALIVISGGLLLFOAMSQLLISEVRYQQQSEQKEWLLFVDQLEVELDRSQFEKVEGNRLY  
 MKQDGKDIAGKSksDDFRKTNARGRGYQPMVYGLKSVRTEDNQLVRFHFQFQKGLEREFIYRVEKEKS

SeqID 230

MKKMMTFLKKAKVKAFTLVEMLVVLLIISVLFLLFVNPNLTKQKEAVNDKGKAUVKVVVESQAEELYSLEKNEDASLRKLQADGR  
 ITEEQAKAYKEYNDKNGGANRKVND

SeqID 231

MTSKVRKAVIPAAGLGRFLPATKALAKEMPLIVDKPTIQFIVEEALKSGIEDILVVTGSKRSIEDHFDSNFELEYNLKEKG  
KTDLKLVDKTTDMRLHFIROTHPRGLGDAVLQAKAFVGNEFFVVMGDDLMITDEKAVPLTKQLMDDYERTHASTIAVMPV  
PHDEVSAVGVIAPQGEKGDKGLYSVETFVEKPAPEADPSDLATIGRYLLTPEIFEILEKQAPGAGNEIQLTDAIDTLNKTQRVF  
AREFGKARYDVGDKFGFMKTSIDYALKHPQVKDDLKNYLIQLGKELTEKE

SeqID 232

MQNQLNELKRKMLEFFQQKQKNNKSARPGKKGSSTKKSCTLKSVIFPAILLSIKALFNLLFVLGFLGGMLGAGIALGYGVAI  
FDKVRVPQTEELVNQVKDISSISEITYSDGTVIASIESDLLRTSISSEQISENLKKAIATEDEHFKEHKGVVPKAVIRATLG  
KFVGLGSSSGGSTLTQOLIKQQVVGDAPTLARKAAEIVDALALERAMNKDEILTTYNVAPFGRNNKGQNIAGARQAAEGIFC  
VDASQLTVQPQAAFLAGLPQSPTYSPYENTGELKSDEDLEIGLRRAKAVLYSMYRTGALSKDYEWSQYKDYLKQDFLPSGTVI  
GISRDYLYFTTLAEAQERMYDYLAQRDNVSAKELKNEATQKFYRDLAAKEIENGKYKITTIDQKIHSAQSADVGYLLDI  
GTGRVEGVNVIMDNQNTGAILGFVGRNYQENQNNHAFDTKRPASTTKPLLAYGIAIDQGLMGSETILSNYPTNFANGNPIMY  
ANSKGTMMLGEALNYSWNIPAYWTYRMLREKGVDVKGYMEKMGYEIPEYGIESLPMGGGIEVTVAQHTNGYQTLANNGVYI  
QKHVISKIEAADGRVVEYQDKPVQVYSKATATIMQLLREVLSSRVTTTFKSNLTSLNPTLANADWIGKTGTTNQDENMWLM  
LSTPRLTLLGGWIGHDDNHSLSRRAGYSNNSNYMAHLVNNAIQQASPSIWGNERFALDPSSVVKSEVLKSTGQKPEKVSVEGKEV  
VTGSTVTSYWANKSGAPATSYRFAIGGSDADYQNAWSSIVGSLPTPSSSSSSSSSDSSNSSTRPSSSRARR

SeqID 233

MSSKFMKSAAVLGTATLASLLLVACGSKTADKPADGSSEVKEITVYVDEGYKSYIEEVAKAYEKEAGVKVTLKTGDALGGI  
KLSLDNQSGNVPDVMMAPYDRVGSIGSDGQLSEVKLSLDGAKTDDTTKSLVTAAANGKVYGAPOAVIESLVMYYNKDLVKDAPKT  
ADLENLAKDSKYAFAGEDGTTAFLADWTNFYTYGLLAGNGAVFGQNGKDAKDIGLANDGSIVGINYAKSWYEKWPKGMOI  
TEGAGNLIQTQFQEGKTAIIIDGPWKAQAFKDAKVNHYGATIPTLPNGKEYAAFGGGKAWVIPQAVNLEASQKFVDFLVATE  
QOKVLYDKTNELIPANTEARSYAEGKNDLTTAVIKQFKNTQPLPNISQMSAVWDPAKNMFLDAVSGQKDAKTAANDAVTLIK  
TIKQKFE

SeqID 234

MIDKVVNRNLLLTFFFCKMTKIIIFLTTILVKKKKICYNEFKLRNRKQKGIVMWVLGFILFMIFFYSNNSSKKIKKLENKIKRLI  
RKEKGNAEMSRLLQEMIGKEPIITGVYIGPDNWEVDVDEEWVLRVNDNTGKEFKLQRIEDIQTVEFDGE

SeqID 235

MILSKNREDGLRKFATNIRNLRTLNLHILFGHYGGSLSIVEVLAVLYGEIMPMTPEIFAARDRDYFILSKGHGPPALYSTL  
LNGFFDKEFLYSLNTNGTKLSPHPDRNLTPGIDMTTGSQGIVSATGLAYQIRKSPFYTYAIVGDGELNEGQCWEAIQF  
SHQQLSNLIVFVDDNKKQLDGFTKDICNPQDFVEKFSAFGFESIRVKGSDIREIYEGIVQLQSNNSPKCIVLDTIKGQGV  
ELEEMKSNHHLRPTVEEKQMLTSVVERLSQELEETE

SeqID 236

MKKTTILSLTTAAVILAAYVPNEPILADTPSSEVIKETKVGSIIQONNIKYKVLTVEGNIGTVQVGNVTPVEFEAGQDGKE  
TIPTKITVGDVKFTVTEVASQAFSSYPDETGRIVYYPSSITIPSSIKKIQKKGFHGSKAKTIIIFDKGSQLEKIEDRAFDFSEI  
EEELPASLEYIGTSAFSFSQKLKLTFSSSSKLELISHEAFANLSNLEKLTLPKSVKTLGSNLFRLTTSLKHVDVEEGNESI  
ASVDGVLFSDKDTQIYYPQKNDSEYKTPKETKELASYSFNKNSYLKLELNEGLEKIGTFAFADAIKLEEISLPSNLETI  
RLAFYGNLELKELILPDNVKNGKHMNGPLKLKSLTIGNNINSLPSFFLSGVLDLSKEIHKNKSTEFSVKKTFAIPETVI  
FYVTSEHIKDVLSNLSTSNDIIVEKVDNIKQETDVAKPKKNSNQGVVGWVKDGLWYYLNESGSMATGWVKDGLWYYLNE  
GSMATGWVKDGLWYYLNESGSMATGWVKDGLWYYLNESGSMATGWVKDGLWYYLNESGSM  
ATGWVTVSGKWYYTYNSGDLLVNTTPDGYRVNANGEWVG

SeqID 237

MVRFTGLSLKQTQAIIEVLKGHIISLPDVEAVTQSDQASISIEGEEGHYQLTYRKPHQLYRALSSLVTVAEADKVEIEEQAAJ  
EDLAYMVDCSRNAVNVASAQOMIEILALMGYSTFELYMEDTYQIEGQPYFGYFRGAYSAAELOEIEAYAQQFDVTFVPCIQ  
LAHLSAFVKWGVKEVQELRDVEDILLIGEEKVYDLDGMFATLSKLKTRKVNIGMDEAHLVGLGRYLILNGVVDRSLLMCQHI  
ERVLADIADKYGFHQCMWSDMFKLMSADGQYDRLDVEIPEETRVYDRLKDRVTLVYDYYQDSEEKYNRNFRNHKISHDLAI  
ACGAWKIGFTPHNHSRLVAEANKACRANQIKEVITGWGDNNGGETAQFSILPSLQIWAELSQRNDLGLSAHFKTNTGL  
VEDFMQIDLALNLLPDLPGNLSGINPNRYVFYQDILCPILDQHMTPEQDKPHFAQAAETLANIKEKAGNYAYLFETQAQLNII  
SSKVVDGRRIRQAYQADDKESLQQIARQELPELRSQJEDFHALFSHQWLKENKVFGLDVTDIRMGGLLQRIKRAESRIEVYI  
GQLDRIDELEVEILPFTDFYADKDAATTANQWHTIATASTIYT

SeqID 238

MSNSFVKLLVSQLFANLADIFFRVTIIANIYIISKSVIATSLVPILEGISFFVASLLVPLVTKRLALNRVLSLSQFGKTILL  
ILVGMFTVMQSVAPLVTYLFVVAISILDGFAAPVSYAIVPRYATDLGKANSALSMTGEAVQVLIGWGLGGLLFATIGLLPTTC  
NLVLYIISFLMLFLPNAEVEVLESETNLEILLKGWKLVARNPRRLFVSAANLLEIFSNTIWVSSIILVFVTELLNKTESYWC  
YSNTAISIGIIISGLIAFRLSEKFLAAKWEPOQLFTPMLKTIQNPCLSLDPGWFLFPNGCFLLDKKEFPLYGISVEKNTKRKI  
THMNSLPNHHFQNKSFYQLSFDGGHLTQYGGGLIFFQELFSQLKLKERISKYLVTDQRRYCRYSDSDILVQFLFQLLTGYGT  
YACKELSADAYFPKLLLEGQQLASQPTLSRFLSRTDEETVHSLRCLNLELVEFLQFHOLNQOLIVDIDSTHFTTYGKQEGVAYI  
AHYRAHGHYHPLYAFEGKTGYCNAQLRPGNRYCSEEADSFITPVLERFNQLLFRMDSGPATPKLYDLIEKTAGQYLYIKLKKN  
VLSRLGDSLPCPQDEDLTLIPEHSAYSETLYQAGSWSHKRRVCQFSERKEGNLFYDVISLVTNMTSGTSQDQFQIYRGRGQAI  
NFIKEMKEGFFGDKTDSTSLLIKEVRRMMSCIAYNLYFLKHLAGGDFQTLTIRKFRHFLHVVGKCVRTGRKQLLKLSSLY  
YSELFSALYSRIRKVNLLNLPVPEPPRRKASLMMH

SeqID 239

MFASKSERKVHYSIRKFSVGVASVVVASLVMGSVVHATENEGATQVPTSSNRANESQAEOGEOPKKLDSERDKARKEVEEYVK  
 KIVGESYAKSTKKRHTITVALVNEELNNIKNEYLNKIVESTSESOLQIILMMESRSKVDEAVSKFEKDSSSSSDSSTKPEASD  
 TAKPNKPTEPGEKVAEAKKKVEEAEEKKADQKEEDRRNYPITYKTLELEIAESDVEVKKAELELVKVKANEPRDEQKIKQAE  
 AEVESQAEATRLKKITDREAAEEAKRRADAKEQGKPKGRAKRGVPGELATPDKKENDAKSSDSSVGEETLPSPLKPEKK  
 VAEAEKKVEEAKKKAEQDKEEDRRNYPITYKTLELEIAESDVEVKKAELELVKSEEAKPRNEEKVKQAKAEVESKKAETRL  
 EKIKTDRKKAEEEAKRKAEEEDKVKEKPQAPAPKAEPKPAEPKPAEPKPAEPKPAEPKPAEPKPAEPKPAEPKPAEPKPAEPK  
 QQPCKTEKPAQPKSTPKTGWLQENGWYFYNTDGSMATGWLNQNNGSWYLNNSNGAMATGWLNQNNGSWYLNANGSMATGWLN  
 GSWYLNANGSMATGWLQYNGSWYLNANGSMATGWLQYNGSWYLNANGDMATGWVKDGTWYYLEASGMKASQWFKVSDF  
 WYYVNGSGALAVNTTVGDGYGVNANGEWVN

## SeqID 240

MNYSKALNECIESAYMVAGHFGARYLESWHLLIAMSNHSYSVAGATLNDYPYEMDRLEEVALELTETDYSQDETFTELPFSRF  
 LQLVLFDEAEYVAVSVVHAKVLGTEHVLYAILHDSNALATRILERAGFSYEDKDQVKIAALRRNLEERAGWTREDLKALRQRHR  
 TVADKQNSMANMMGMPQTPSGGLLEDYTHDLTEQARSGKLEPVIGRDKEISRMQIILSRKTKNNPVLVGDAGVGKTLALGLAC  
 RIASGDPVAAEMKRVLELDLMNVVAGTRFRGDFEERMNNIKDIEEDGQVILFIDELHTIMGSGSGIDSTLDAANILKPALA  
 RGTLRVGATTQEEYQKHIKEADAAEAKRSRAKVTIEEPSVADSMTILQGLKATYEHHRVQITDEAVETAVKMAHRYLTSRHLI  
 DSAIDLLEDEAAATVQNKAKHVKADDSDLSPADKALMDGKWKQAAQLIAKEEVEPVYKDLVTESDLTTLSRLSGIPVQKLTQI  
 DAKKYLNLEAELHKRVIGQDQAVSSISRAIRRQSGIRSHKRPIGSFMFLGPTGVGKTELAKALAEVLFDDESALIRFDMSEY  
 MEKFAASRLNGAPPGVGYVEEGGELTEKVRNKPYSVLLFDEVEKAHPDIFNVNLLQVLDGVLTDSKGRKVDFSNIIIMTSNI  
 GATALRDKTVFGAKDIRFDQENMEKRMFEELKKAYRPEFINRIIDEKVVFHSLSSDHMQEVVVKIMVKPLVASLTEKGIDLKI  
 QASALKLLANQGYDPEM GARPLRRTLQTEVEDKLAELLKGDLVAGSTLKIGVKAGQLKFDIA

## SeqID 241

MKILPFIARGTSYVLMKMSVKLVPFLVVGMLAAGDSVYAYSRGNGSIARGDDYPAYYKNGSQEIDQWRMYSRQCTSFAVAFRI  
 SNVNGFEIPAAYGNANEWGHRARREGYRVDNTPTIGSITWSTAGTYGHVAWSNVMDQIEIEEYNYGYTESYNKRVIKANT  
 TGFIHFKDLDGGSVGNSQSSTGGTHYFKTKSAIKTEPLASGTVIDYYYYPGEKVHYDQILEKDGYKWLSSYTAYNGSYRYVQI  
 EAVKNPLGNSVLSSTGGTHYFKTKSAIKTEPLVSATVIDYYYYPGEKVHYDQILEKDGYKWLSSYTAYNGSRRYIQLEGVTSS  
 NYQNQSGNISYYGHSSTSSTVGWKKINGSWYHFKSNGSKSTGWLKDSSWYKLQSGEMQTGWLKENGLWYLGSSGAMKTGW  
 QVSGKWWYSSGALAVNTTVGDGYRVNSDGERV

## SeqID 242

MKVIFLADVKGKKGEIKEVPTGYAQONFLIKKNLAKEATAQAVGELRGKQKSEEKAHAEMIAEGKAIAQLEAEETVVEFVI  
 KVGPDTGRTFGSITNKKIAEELQKQFGIKIDKRHIQVQAPIAVGLIDVPVKIYQDITSVINLRVKEG

## SeqID 243

MKKKILASLLSTVMVSQAVLTTAHAETTDDKIAAQDNKISNLTAQQQEAKQVQDQIQEVSQIQAESNLQAENDRLQAE  
 KKLEGEITELSKNIVSRNQSLQKQARSAQTNQAVTSYINTIVNSKSITEAISRVAAMSEIVSANNKMLEQQKADKKAISEKQ  
 ANNDAINTVIANQQLADDAQALTTKQAEELKAAELSAAEKATAEGERKASLLEQKAAAEEARAAAEEAAYKEKRASQQQS  
 LASANTNLTAQVQAVSESAAAPVRAKVRPTYSTNASSYPIGECTWGVKTLAPWAGDYWGNGAQWATSAAAAGFRTGTPQVG  
 IACWNDDGGYGHVAVVTAVESTRIOVSESNYAGNRTIGNHRGFNPNTTSEGFTVITYAD

## SeqID 244

MVKRRIRRGTRPEKVVVPEQSSIPSYPVSVTSNQGTDVAVEPAKAVAPTTDWKQENGWYFYNTDGSMATGWVQVNNSWYY  
 NSNGSMKVQWFQVGGKWYYVNTSGELAVNTSIDGYRVNDNGEWR

## SeqID 245

ELRRRLSRLVDQELYFGCGWRLSLEWLPSMRKDSWPSNTAPRTTMVQ

## SeqID 246

DCIRKQPFTRDEPNKTCRKTGPSKSYCSYRW

## SeqID 247

GQRNPRIERVIRMAETKPRISKKEG

## SeqID 248

QRKLFKIFHLFQKKSGWNQKSSLKLNLSNRKMTQMTKMFRSFQPKPLNTNFQAYNSLHQINQKISLKRRLSEKISK

## SeqID 249

LVIIVLKIQSKSETDFIFKTWFILLSKIIPMVLDCQVSISWTNRETVAYSKLLAIKTLKGDYHDGOSKKIRLSHASRVTI  
 SWYPHDMADSTRIMAFSRKGC

## SeqID 250

ERLPAFPRLSGRKLDQGGTKEKGSDGRSP

## SeqID 251

RNCLSTWKSSSNYHTEIKRGTVRQCLGKGRFKEVYADYQQSYENNKRKRSVKKSSLTKELEKILHYHNQKFSEPMVMAM  
 VNVGISTIYYWIHGKGLGSKQDLLYPRKGKALKQASTNFKPAGQSIEQRPEAINRLLENGHYEIDTVLLTRSKNYCLIVL  
 DRKSRHQIIRLIPNKSAAEVVNQALKLILKQHKILSITADNGTEFNRLFDIFSEEHIIYAHPYASWERGTNENHNRLIRR

SeqID 252  
PVMTISSPTMKNMDLSTKASPSQPLQGKHGMIWSGK

SeqID 253  
TSSIRIHTRKSSPNWTTTPHLALSAETN

SeqID 254  
YFLPHKYARESLSLPSTNKILHRKQGS

SeqID 255  
AAFKKDQINERVEKLGKLKPITINYNGKSEVIDSKEKLQELMNKAVKDEVAQI

SeqID 256  
AYAHSKRSAGSGRAGGRQCLCQCQNKCRRDFKY

SeqID 257  
HGRPYHKPHQPHHGFPQOSYNLLPPKHKPTLCVRR

SeqID 258  
KGKILLPLRLTTQRWQRKIRPDSRKSANNKANLDFHNSRCKSSLDEAPNLHKNPALLVHSLSRVIAVLLELSPLQAYSIVKI  
SPKEDDLIHDDAILVRFGILEVHDSPYELLLLHYTHSYRFSCSIYLS

SeqID 259  
FTVSHVFLYLFSNPRPKSMSLSFTSSKLLRPRFRTFIISASDFSVKSCTVLIPARFKQLYERTDKSSSIVRSKIRSSDSVS  
ASFITSVDAISVRVNVKSRCSVKIRAESPKASSGIIVPFVKISRVNLSKPSLLPTRAGST

SeqID 260  
LVCMKNKGCYKERNNCCH

SeqID 261  
FHYLSKYFLVSAITTGDKTGRAIKFGRAIKALTISAIQTISNSINPPNKTMSKTTR

SeqID 262  
GKKVFIKYPLSRVSSKTGPMITGRTKDKIVDKKVGCPEKSTVKYSS

SeqID 263  
SSPVFPKLVMSGANKPRERRNFPFSSKMSFHLTFLV

SeqID 264  
YLTFSVPKIASSKVKLTRYWRSSPWRCAGFLREEPKKLEKISSKPPKPPAPLKPKPPAPPKPLAPAAPYWS

SeqID 265  
QSWRPIPDSDKCYTQEKLTIPIKRRDIKDFYHNSIQRHKNSHKSHLDSYRLIITRLAEIVHENKILIVLILYVTNIPSRSRI  
YEVNRV

SeqID 266  
LFRFYRVIVLYRGWHIYLLILVNLQYVQNVFRKDRFLVRGAQPFHGERSAAGHLVLPYVL

SeqID 267  
ITHPPLNPEHFVSRVFSSLGLKSYPKDDRFLRKPSDSRHPESGNGKWQVILNSPLVIVK

SeqID 268  
TLAKAVGLMYSPPIPPKPFGLGRITTDSSSI

SeqID 269  
PGSPFSEISGAGFFGVAKRIFPRPPPWATINSCPCSIKSVKTLPVASRTVVPCGTRTLRSSAPRPCIPLVIPFSPEALI

SeqID 270  
INSLTLATSLSKRRAPRKASKASPRMVSRLRPPDFSSPLPNLINWSNWQSRAKPAKLSRTIIARSFDRSPSGFLGYFLYRY:  
EINNCRTASPKNSKRSLCEIFKRRCSLA

SeqID 271  
PIGKRNCKAECQSHLLEKQKTFQSRKTKRYGASPEPRYRESRKPRLSQ

SeqID 272  
QPLGHSKAEEHETICSHTFDNHTETIPNQVKGRDMTSSETLPFFPSKNQNQGKAKQIP

SeqID 273  
PCSLPDYGLVSGYHSCHYQSNDTRFLESHGNWRTLLYSWSWILCQEKTLPHDLASLYPSCVRTSIHRYCLLHVKKLRNSIS  
TFFFTHIDKVLVQAHIIQSFWMKRTYQHIFFLGCNNLIVHCC

SeqID 274  
RVKDNHLDKLVKALLKRRSSTQYYIHQLLRKMIRLYGHQQLHNNSEILVYSDYGHVDLLLLETNKIPVY

SeqID 275  
QVIKIDIATTNKTESVKSQSEREKRLTSSNILKVRGRPI

SeqID 276  
AFKSSKVPSLDPSSKTYSISVSKSGSKASRA

SeqID 277  
DKTDPLARKLPDKSKPSTSFCFKSLSPVNMASLTSAKPSKTKASLGICSPADKRMTSPSTNSSGLRATS

SeqID 278  
LCRLQTQARPRGSVTNLTKQNKVYRYLNYLQTLQLSAM  
CIQSIGNEGQCKGNSCYVGKEIHLAPISDIVGHKGKEEGDDGNDGRQFYLFIAHLVGS AFLRSFPLLYSKGINEEGDGIGND  
GRLISKDIINSTGQNGINNTKVISPFA

SeqID 280  
TSTKLVIDTTTFMTFCTNNTKSSKFTNTFTKLDVGTTTRHVGCDGNGTTLTSIHDDLGF SIVVFGIQDFVRNTSCNQFLRNVV  
TSFNRYCTNQDRLLTLLVTSLNVDNRFKLRFDTCKK

SeqID 281  
ISTGVPTCSMYPLLKTAILSDKVKASS

SeqID 282  
LSTMSSIKSILCSLPTHTIFSKSAISPKRGSTAI

SeqID 283  
SCSYSSTNSKACSIVGLSKPTIFICVTPISA AKAISSASRPANSSTFKCVCVSKIISSNLVFYLLLYQKRGGAPNFSVS PPLF  
NRELF CYLFY PILPIS YSTVRDRDWLH

SeqID 284  
VTSCIVPAVACGALVVLGAALGATG L GTVTMAMACTPIVSASFTSSIVFAFSISLRAACFSASTLA KSSAFSLSESGAPLIS  
SCLSLAAFSMAFLADSFSVANCLEACD

SeqID 285  
YSPFNHSILRKTTKIINPNPKAPRMNWRSKVWSNQPVNISTNHTKSDRPIKK

SeqID 286  
DYFKFR TT FTRFSTVKPYSANTFGAGAEAPKVSIPRTAPS RPTYLYQF

SeqID 287  
RGRRGLCVARIKAPRLVIKPRTIDPPTKDRYSPPLSATSLVPKSPIISFPAKMDKNPKRKLNSKVIFNASVT

SeqID 288  
TPPYTKI PAKT AII PP FISA QDFNQAQRLSG

SeqID 289  
ATGAAGAAAAAAATCTTAGCGTCACTTTATTAAGTACAGTAATGGTTCTCAAGTAGCTGTTAACAACTGCGCATGCAGA  
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ACCAAATT CAGGAGCAAGTATCAGCTATTCAAGCTGAGCAGTCTAAC TTGCAAGCTGAAATGATAGATTACAAGCAGAATCT  
AAGAAACTCGAGGGTGAGATTACAGAAC TTTCTAAAACATTGTTCTCGTAACCAATCGTTGGAAAAAACAAGCTCGTAGTGC  
TCAAACAAATGGAGCCGTA ACTAGCTATATCAATACCATTGTAACACTCAAATCAATTACAGAAGCTATTTCACGTGTTGCTG  
CAATGAGTGAATCGTATCTGCAAACAACAAAATGTTAGAACACAAAAGGCAGATAAAAAGCTATTCTGAAAACAAGTA  
GCAAATATGATGCTATCAATACGTAA TTGCTAATCAACAAAATTGGCTGATGATGCTAAGCATTGACTACGAAACAGGC  
AGAAACTAAAAGCTGCTGAATTAGTCTTGCTGCTGAGAAAGCGACAGCTGAAGGGAAAAGCAAGTCTATTAGAGCAAAAG  
CAGCAGCTGAGGGAGGCTCGTCAAGCTGAGCAGCTGAGCAGCTTAAAGAAAAAGAGCTAGCCAACAACAACTCAGTA  
CTTGCTTCA GCAAACACTAATTAACAGCTCAAGTGCAGCAGTATCTGAATCTGAGCAGCACCTGTCGTGAAAAGTTCG  
TCCAACATACAGTACAAACAGCTTCAAGTATCCAATTGGAGAATGTACATGGGGAGTAAAACATTGGCACCTTGGCTGGAG  
ACTACTGGGGTAATGGAGCAGCTGGCTCAAGTGCAGCAGCAGGTTCCGTACAGGTTCAACACCTCAAGTTGGAGCA  
ATTGCTAGTTGGAAATGATGGTGGATATGGTCACTGAGCTGTTGAATCAACACACGTATCCAAGTATCAGA

ATCAAATTATGCAGGTAATCGTACAATTGAAATCACCGTGGATGGTTCAATCCAACAAACTCCTGAAGGTTTGTTACAT  
ATATTTATGCAGAT

SeqID 290

ATGAAAGAAAAAATCTAGCGTCACTTTATTAAAGTACAGTAATGGTTCTCAAGTAGCTGTTTAACAACACTGCGCATGCAGAACAGACTGATGACAAAATTGCTGCTCAAGATAATAAAATTAGTAACCTAACAGCACAAACAAGAAGCCAAAAACAAGTGAACCAAATTCAAGGAGCAAGTATCAGCTATTCAAGCTGAGCAGTCTAACCTGCAAGCTGAAATGATAGATTACAAGCAGAAATCAAGAAACTCGAGGGTGAGATTACAGAACTTCTAAAAACATTGTTCTCGTAACCAATCGTGGAAAAACAAGCTCGTAGTCCTAAACAAATGGAGCCGTAACTAGCTATATCAATACCATTGTAACCTCAAAATCAATTACAGAAGCTATTCACGTGTTGCTGCAATGAGTGAAATCGTATCTGCAAACAACAAAATGTTAGAACACAAAAGGCAGATAAAAAGCTATTCCTGAAACAAAGTGAACAAATTAATGATGCTATCAATACTGTAATTGCTAATCAACAAAATGGCTGATGATGCTCAAGCATTGACTACAGAACAGGGCAGAACTAAAGCTGCTGAATTAAAGCTTGTGCTGAGAACAGCGACAGCTGAAGGGAAAAAGCAAGTCTATTAGAGCAAAAGCAGCAGCTGAGGGCAGAGGCTCTGCAAGCTGGTAGCAGAAGCAGCTTATAAAGAAAAACGAGCTGGCCAACAACAATCAGTATTTGCTTCAGCAAACACTAAACTTAAACAGCTCAAGTGCAGCAGTATCTGAATCTGCAGCAGCACCTGTCGTGCAAAGTTGCTTCAACATACAGTACAAACGCTTCAAGTTATCCAATTCAGGAGAATGTACATGGGAGTAAACATTGGCACCTGGCTGGAGACTACTGGGTAATGGAGCACAGTGGCTACAAGTGCAGCAGCAGCAGCAGGTTCCGTACAGGTTAACACCTCAAGTTGGAGCAATTGCAATGTTGAAATGATGGTGGATATGGTCACGTAGCGGTTGTTACAGCTGTTGAATCAACAAACACGTATCCAAGTATCAGAATCAAATTATGCAGGTAATCGTACAATTGAAATCACCGTGGATGGTCAATCCAACAAACTTCTGAAGGTTGTTACATATTTATGCAGAT

SeqID 291

ATGATCCAAATCGGAAGATTGGCCGGACGCTATCGGATTGTCAAACAGATTGGTCAGGAGGTATGGCGGATGCTACCT  
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CTCGTTTCAGCGTAAGCGAGAGCTATGGCAGATCTAGACCCTCATATCGTTCGATAACAGATATTGGCGAGGAAGAC  
GGTCAACAGTACCTAGCTATGGAGTATGTGGCTGGACTGGACCTCAAACGCTATATCAAGGAACATTATCCTCTTCTAATGA  
AGAACGAGCCCCTATCATGGGACAATTCTTGGCTATGCGCTTGGCCCATACTCGAGGAATTGTTCACAGGGACTTGAAAC  
CTCAAAATATCCTCTGACACAGATGGGACTGCCAAGGTACAGACTTTGGGATTGCTGTAGCCTTGAGAGACAAAGTCTG  
ACCCAGACTAACATCGATGTGGGCTCAGTTCTTACTGTCAACCAGAGCAGGGGGTGGTCTGAAGGCAGTGTGAGAGTGA  
TATCTATGCCATGGGATTATTCTATGGAGATGCTGACAGGCCATATCCCTTATGACGGGGATAGCGGGTGAACATTGCC  
TCCAGCATTCCAGAAACCCCTGGCTCCGTTATTGCAAGAAAATCATCTGTACCTCAGGCTTGTAGAAAATGTTATTATCAAG  
GCAACTGCTAAAAGTGTGACCAATCGTACCGCTCGGTTCTAGAGATGTATGTGCTAGTAGCTGTGCTTACAATCG  
TAGAAATGAAAGTAAGTTAATCTTGATGAAACAGAGCAAGGCAGATACCAAGAACCTTGCGAAGGTTCTCAGAGTACCTTG  
CATCTATTCCAAGGTTCAAGGCCAACAGAACACAAATCAATCATAAAACCCAAAGCAGGCTGTGACAGAGGAAACTTACCAA  
CCACAAGACCGAAAAAACATAGATTTAAGATGCGTTACCTGATTGTTGGCCAGCCTTGATTGGGAGCAGCTTCTCTTA  
TTGGATACTATCCAGAACTCCGTCAACCATTGCCATTCCAGATGGCAGGTCAGAGCTTGTGAGGAGGCAAGGCAACGCTC  
AAAAAGCCAATTGGAGATTGGTGGAGGAGAAGACAGAGGCTAGTGAAGGAGGAGAAGGGCGGATTATCCGTACAGATCC  
GGCCTGGAACGGTGGAAAGAAGGAAACGAAAATCAATTGGTGTCTCATCAGGCAAGCAATTTCCAAATTAGTAATT  
TGTGGTGGGAAATCCTCTGATGTCATTGGGAATTAAAAGAGAAAAAGTTCAGATAATTGATTAAAATTGAGGAAGAAG  
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SeqID 292

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## SeqID 293

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## SeqID 294

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## SeqID 295

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## SeqID 296

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## SeqID 297

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## SeqID 298

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## SeqID 299

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## SeqID 300

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## SeqID 301

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## SeqID 302

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ACGAGAATTAAAACGGAGTATTGTATAAATTAAAGTTAATGTTAGAAGAAAAGTCAAAAGCTGAGTTGACGTCAAAAAC  
AAAAAAAGAGGTAGACGCGAGCTTTGAGAAGTTAAAAAAAGATACTTGAAGACTAGGAGAAAAGGTAGCAGAAGCTCAGAAGA  
AGGTTGAGAAGAGCTAAGAAAAAAAGCCAAGGATCAAAAGAAGAAGATCACCGTAACTACCCAAACCAATCTACAAAACGCTI  
GAACCTGGAAATTGCTGAGTCCGATGTGAAAGTTAAAAGAAGCGGAGCTTGAACATTGAAAGAGGAAGCTAAAACCTGAAACGA  
GGACACAATTAAACCAAGCAGGAAAGTTAAGAGTGAACAGCTGAGGCTACAAGGTTAAAAAAATCAAGACAGATCGT  
AACAGCTGAGGCTACAAGGTTAGAAAAACATCAAGACAGATCGTAAAAAGCAGAAGAAGCTAAACGAAAAGCAGAAXXXXX  
XXXXXXXXXXXXXXXXXXXXXXXXXXCTTGAATTGCTGAGTCCGATGTGAAAGTTAAAGAAGCGGAGCTTGAAC  
TAGTAAAAGAGGAAGCTAAGGAATCTCGAAACGAGGAAAAGTTAAGCAAGCAGGAAAGCGAGTAAACAGGAGAGTAAACAGCTGAG  
GCTACAAGGTTAGAAAAATCAAGACAGATCGTAAAAAGCAGAAGAAGAGCTAAACGAAAAGCAGCAGAAGAAGATAAAGT  
TAAAGAAAAACAGCTGAACAAACCAACCGCGCCGCTCTCAACCCAGAAAACAGCTCCAGCTCCAAAACAGAGAAT  
CAGCTGAACAAACCAAAAGCAGAAAACAGCTGATCAACAAGCTGAAGAAGACTATGCTCGTAGATCAGAAGAAGATAAAG  
CGCTTGAACAGCAACGCCAAAACGAGCTAAACCCAGCACAAACCATCTACTCCAAAACAGGCTGGAAACAAGAAAACG  
TATGTGGTACTTCTACAATACTGATGGTCAATGGCGACAGGATGGCTCCAATACAATGGCTCATGGTACTACCTAAACGCT  
ATGGTCAATGGCGACAGGATGGCTCCAAAACAATGGTCAATGGTACTACCTAAACGCTAATGGTATATGGCGACAGGATG  
CTCCAAAACAATGGCTCATGGTACTACCTAAACGCTAATGGTATATGGCGACAGGATGGCTCCAAAACAATGGCTCATGGT  
CTACCTAAACGCTAATGGTATATGGCGACAGGTTGGGTGAAAGATGGAGATACCTGGTACTATCTGAAGCATCAGGTGCT  
TGAAAGCAAGCCAATGGTCAAAGCATCAGATAAATGGTACTATGTCATGGCTCAGGTGCCCTTGCAAGTCAACACAACGT  
GATGGCTATGGAGTCATGCCAATGGTGAATGGTAAAC

## SeqID 303

ATGTTTGCATCAAAAAGCGAAAGAAAAGTACATTATTCAATTCTGAAATTAGTATTGGAGTAGCTAGTGTAGCTGTTGCCA  
TCTTTTATGGGAAGTGTGGTTCATGCAGACAGAGAAGGAGGTAACCTACCCAAAGTAGCCACTTCTCTAATAAGGCAAATAAA  
GTCAGACAGAACATATGAAAGCTGCTAAACAAGTCGATGAATATATAAAAAAAAGCTCAATTAGATAAGAAAACATAC  
AAAATGTCGGCTTACTCACAAGTTGGCGTAATTAAACGGAGTATTGCTGATGGATTAAGTGTTCAAAAAAAGTCGG  
AGCTGAGTGGCGCTCAGAAAATAAAAGCAGGAAAGTTAGACGCGAGCTTTGAGCAGTTAAAAAGATACTTACCAACAGAAC  
GAAAAAGGTAGCAGAAGCTGAGAAGAAGGTTGAAGAAGCTAAGAAAAAGCCGAGGATCAAAAGAAAAGATCTCGTAA  
TACCCAAACCAACTTACAAAACGCTGAGCTTGAATTGCTGAGTCCGATGTGAGTTAAAAAGCGGAGCTTGAACACTAG  
AAAAGGGAGCTACAGGAATCTCGAGACGAGAAAATTAATCAAGCAGGAAAGCTGAGATAAAAAGCTGATGCTA  
AAGGXXXXXXXXXXXXXXXXXXXXXXCTTCAACAGCTTACCTCAACAGCAATGGCTTACATGGTACTACCTCAACGCTAATGGT  
TCAATGGCAACAGGCTGGCTCAAAACAATGGCTCATGGTACTACCTCAACAGCAATGGCTTACATGGTACTACCTCAACG  
AAACAATGGCTCATGGTACTACCTCAACAGCAATGGCTTACATGGTACTACCTCAACAGCAATGGCTTACATGGTACTAC  
TCAACGCTAATGGTATATGGCGACAGGATGGTCAAAACAATGGTCAATGGTACTACCTCAACGCTAATGGTATATGG  
ACAGGATGGTCCAAACAATGGTCAATGGTACTACCTCAACGCTAATGGTATATGGCGACAGGATGGTCAAAACAATGG  
TTCATGGTACTACCTCAACGCTAATGGTATATGGCGACAGGATGGCTCCAATACAATGGTCAATGGTACTACCTAAACAGC  
ATGGTGTATGGTAAACAGGATGGCTCCAAAACAATGGCTCATGGTACTACCTAAACGCTAACGGTCAATGGCAACAGATTG  
GTGAAAGATGGAGATACTGGTACTATCTGAAGCATCAGGTGCTATGAAAGCAAGCCAATGGTCAAAGTATCAGATAAAT  
GTACTATGTCATGGCTCAGGTGCCCTTGCAAGTCAACACAACGTAGATAGCTATAGAGTCATGCCAATGGTGAATGGGTA  
AC

## SeqID 304

MKKKILASLLLSTVMVSQAVLTTAHAETTDDKIAAQDNKISNLTAQQQEAKQVQDQIQEVSQAIQAEQSNLQAENDRLQAE;  
KKLEGEITELSKNIVSRNQSLEKQARSAQTNGAVTSYINTIVNSKSITEAISRVAAMSEIVSANNKMLEQQKADKKAISEKO  
ANNDNAINTVIANQQKLADDAQALTTKQAEKAAELSAAEKATAEGEREKASLLEQKAAAEEARAAAEEAAYKEKRASQQS  
LASANTNLTAQVQAVSESAAAPVRAKVRPTYSTNASSYPIGECTWGVKTLAPWAGDYWGNGAQWATSAAAAGFRTGSTPQVG  
IACWNDDGYGHVAVVTAVESTRTRIQVSESNYAGNRIGNHRGFNPNTTPEGFVTYIYAD

## SeqID 305

MKKKILASLLLSTVMVSQAVLTTAHAETTDDKIAAQDNKISNLTAQQQEAKQVQDQIQEVSQAIQAEQSNLQAENDRLQAE;  
KKLEGEITELSKNIVSRNQSLEKQARSAQTNGAVTSYINTIVNSKSITEAISRVAAMSEIVSANNKMLEQQKADKKAISEKO  
ANNDNAINTVIANQQKLADDAQALTTKQAEKAAELSAAEKATAEGEREKASLLEQKAAAEEARAAAEEAAYKEKRASQQS  
LASANTNLTAQVQAVSESAAAPVRAKVRPTYSTNASSYPIGECTWGVKTLAPWAGDYWGNGAQWATSAAAAGFRTGSTPQVG  
IACWNDDGYGHVAVVTAVESTRTRIQVSESNYAGNRIGNHRGFNPNTTSEGFTYIYAD

## SeqID 306

MIQIGKIFAGRYRIVKQIGRGGMADVYLAKDLILDGEEVAVKVLRTNYQTDPPIAVARFQREARAMADLDHPhIVRITDGEI  
GQQYLAMEYVAGLDLKRYIKEHYPLSNEEAIRIMGQILLAMRLAHTRGIVHDLKPQNILLTPDGTAKVTDGIAVAFATS  
TQTNMSLGSVHYLSPEQAGGSATVQSDIYAMGIIFYEMLTGHIPYDGDSAVTIALQHFQKPLPSVIAENPSVPQALENVII  
ATAKKLTNRYSRSEMYVDSLSSLSYNRRNESKLIFDETSKADTKTLPKVSQSTLTSIPKVQAQTEHKSINKPSQAVTEETY  
PQAPKKHRFKMRYLILLASLVLVAASLIWILSRTPATIAIPDVAQTVAEAKATLKKANFEIGEEKTEASEKVEEGRIIRTD  
GAGTGRKEGTINLVSSGKQSFQISNYVGRKSSDVIAELKEKKVPDNLIKIEEEESEAGTVLKQSLPEGTTYDLSKATC  
IVLTVAKKVTSVAMPSYIGSSLEFTKNNLIQIVGIKEANIEVVEVTTAPAGSAEGMVVEQSPrAGEKVDLNKTRVKISIYKPK  
TTSATP

## SeqID 307

MIQIGKIFAGRYRIVKQIGRGGMADVYLAKDLILDGEEVAVKVLRTNYQTDPPIAVARFQREARAMADLDHPhIVRITDGEI  
GQQYLAMEYVAGLDLKRYIKEHYPLSNEEAIRIMGQILLAMRLAHTRGIVHDLKPQNILLTPDGTAKVTDGIAVAFATS  
TQTNMSLGSVHYLSPEQARGSKATVQSDIYAMGIIFYEMLTGHIPYDGDSAVTIALQHFQKPLPSVIAENPSVPQALENVII  
ATAKKLTNRYSRSEMYVDSLSSLSYNRRNESKLIFDETSKADTKTLPKVSQSTLTSIPKVQAQTEHKSINKPSQAVTEETY  
PQAPKKHRFKMRYLILLASLVLVAASLIWILSRTPATIAIPDVAQTVAEAKATLKKANFEIGEEKTEASEKVEEGRIIRTD  
GAGTGRKEGTINLVSSGKQSFQISNYVGRKSSDVIAELKEKKVPDNLIKIEEEESEAGTVLKQSLPEGTTYDLSKATC  
IVLTVAKKATTIQLGNYIGRNSTEVISELQKKVPENLIKIEEEESESEPTIMQSPGAGTTYDVKPTQIVLTVAKKVT  
VAMPSYIGSSLEFTKNNLIQIVGIKEANIEVVEVTTAPAGSAEGMVVEQSPrAGEKVDLNKTRVKISIYKPK  
TTSATP

## SeqID 308

MIQIGKIFAGRYRIVKQIGRGGMADVYLAKDLILDGEEVAVKVLRTNYQTDPPIAVARFQREARAMADLDHPhIVRITDGEI  
GQQYLAMEYVAGLDLKRYIKEHYPLSNEEAIRIMGQILLAMRLAHTRGIVHDLKPQNILLTPDGTAKVTDGIAVAFATS  
TQTNMSLGSVHYLSPEQARGSKATVQSDIYAMGIIFYEMLTGHIPYDGDSAVTIALQHFQKPLPSVIAENPSVPQALENVII  
ATAKKLTNRYSRSEMYVDSLSSLSYNRRNESKLIFDETSKADTKTLPKVSQSTLTSIPKVQAQTEHKSINKPSQAVTEETY  
PQAPKKHRFKMRYLILLASLVLVAASLIWILSRTPATIAIPDVAQTVAEAKATLKKANFEIGEEKTEASEKVEEGRIIRTD  
GAGTGRKEGTINLVSSGKQSFQISNYVGRKSSDVIAELKEKKVPDNLIKIEEEESEAGTVLKQSLPEGTTYDLSKATC  
IVLTVAKKATTIQLGNYIGRNSTEVISELQKKVPENLIKIEEEESESEPTIMQSPGAGTTYDVKPTQIVLTVAKKVT  
VAMPSYIGSSLEFTKNNLIQIVGIKEANIEVVEVTTAPAGSAEGMVVEQSPrAGEKVDLNKTRVKISIYKPK  
TTSATP

## SeqID 309

MIQIGKIFAGRYRIVKQIGRGGMADVYLAKDLILDGEEVAVKVLRTNYQTDPPIAVARFQREARAMADLDHPhIVRITDGEI  
GQQYLAMEYVAGLDLKRYIKEHYPLSNEEAIRIMGQILLAMRLAHTRGIVHDLKPQNILLTPDGTAKVTDGIAVAFATS  
TQTNMSLGSVHYLSPEQARGSKATVQSDIYAMGIIFYEMLTGHIPYDGDSAVTIALQHFQKPLPSVIAENPSVPQALENVII  
ATAKKLTNRYSRSEMYVDSLSSLSYNRRNESKLIFDETSKADTKTLPKVSQSTLTSIPKVQAQTEHKSINKPSQAVTEETY  
PQAPKKHRFKMRYLILLASLVLVAASLIWILSRTPATIAIPDVAQTVAEAKATLKKANFEIGEEKTEASEKVEEGRIIRTD  
GAGTGRKEGTINLVSSGKQSFQISNYVGRKSSDVIAELKEKKVPDNLIKIEEEESEAGTVLKQSLPEGTTYDLSKATC  
IVLTVAKKATTIQLGNYIGRNSTEVISELQKKVPENLIKIEEEESESEPTIMQSPGAGTTYDVKPTQIVLTVAKKVT  
VAMPSYIGSSLEFTKNNLIQIVGIKEANIEVVEVTTAPAGSAEGMVVEQSPrAGEKVDLNKTRVKISIYKPK  
TTSATP

## SeqID 310

MIQIGKIFAGRYRIVKQIGRGGMADVYLAKDLILDGEEVAVKVLRTNYQTDPPIAVARFQREARAMADLDHPhIVRITDGEI  
GQQYLAMEYVAGLDLKRYIKEHYPLSNEEAIRIMGQILLAMRLAHTRGIVHDLKPQNILLTPDGTAKVTDGIAVAFATS  
TQTNMSLGSVHYLSPEQARGSKATVQSDIYAMGIIFYEMLTGHIPYDGDSAVTIALQHFQKPLPSVIAENPSVPQALENVII  
ATAKKLTNRYSRSEMYVDSLSSLSYNRRNESKLIFDETSKADTKTLPKVSQSTLTSIPKVQAQTEHKSINKPSQAVTEETY  
PQAPKKHRFKMRYLILLASLVLVAASLIWILSRTPATIAIPDVAQTVAEAKATLKKANFEIGEEKTEASEKVEEGRIIRTD  
GAGTGRKEGTINLVSSGKQSFQISNYVGRKSSDVIAELKEKKVPDNLIKIEEEESEAGTVLKQSLPEGTTYDLSKATC  
IVLTVAKKATTIQLGNYIGRNSTEVISELQKKVPENLIKIEEEESESEPTIMQSPGAGTTYDVKPTQIVLTVAKKVT  
VAMPSYIGSSLEFTKNNLIQIVGIKEANIEVVEVTTAPAGSAEGMVVEQSPrAGEKVDLNKTRVKISIYKPK  
TTSATP

## SeqID 311

MFASKSERKvhysirkfSigvasvavaslvmgsvvhatenegstqaatssnmaktehrkaakqvdeyiekmlreiqlrrkj  
tqnvalniklساiktkylrelnvleekskdelpseikakldaafekfkkdtlkpgkvaakeakkveakkkaedqkeedrrn  
ptntyktleletaeFDVKVKEAELELVKEEAKESRNEGTTIKQAKAKEVSKKAETRLENIKTDRKKAAEEAKRKADAKLKEAJ  
vatSDQGKPKGRAKGVPGElatPDKKENDAKSSDSVGEETLPSSSLKGKKVAEEAKVAAEAKDQKEEDRRNYPNT  
YKTLDLEIAESDVVKVKEAELELVKEEAKPRDEEKIKQAKAKVESKKAETRLENIKTDRKKAAEEAKRKAEEEDKVKEKPA  
QPQPAPATQPEKPKPKEQPKAEKTDQQAEEDYARRSEEYNRLTQOQPPKTEKPAQPSTPKTGWQENGWYFYNT  
GSMATGWLQNNGSWYYLNANGAMATGWLQNNGSWYYLNANGSMATGWLQNNGSWYYLNANGAMATGWLQYNGSWYYLNNSNGA  
ATGWLQYNGSWYYLNANGDMATGWLQNNGSWYYLNANGDMATGWLQYNGSWYYLNANGDMATGWLQYNGSWYYLNNSNGA  
QWFVKVSDKWYYVNGSGALAVNTTVDGYGVNANGEWVN

## SeqID 312

MFASKSERKvhysirkfsvgvavvvavslvmgsvvhatenegatqvptssnraneqaeqgeqpkklserdkarkeveeyy  
KIVGESYAKSTKRRHTITVALVNELNNIKNEYLNKIVESTSESOLQILMMESRSKVDDEAVSKFEDSPSSSSSDSSTKPEXX  
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX  
SKKAEATRLEKIKTDRKKAAEEAKRKAEEEDKVKEKPAEQPQAPAPKAEPAPKPNPAAQPKAEPKAQPKADQQAEEEDYARR  
EEEYNRLTQQOPPKTEKPAQPSTPKTGWQENGWYFYNTDGSMATGWLQNNGSWYYLNANGAMATGWLQYNGSWYYLNANG  
MATGWLQNNGSWYYLNANGSMATGWLQYNGSWYYLNANGSMATGWLQYNGSWYYLNANGDMATGWLQYNGSWYYLNANG  
SQWFVKVSDKWYYVNGSGALAVNTTVDGYGVNANGEWVN

SeqID 313

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXLKLSPMWKLKKRSLTSKEAKPLNEGTIRQ  
 AKAEVESKKAEEATRLEKIKTDRKKAAEEAKRRRAAEDKVKEKPAEQPQPAPAPQPEKPTEEEPENPVAPKPEKPAEQPKPEKP  
 AEOPKPEKPAEQPKAEKTDQQAEEDYARRSEEEYNRLTQQQPOKPEQOPAPAPKIGWKQENGWYFYNTDGSMATGWLQYNGS  
 WYLNANGSMATGWVKDGTWYYLEASGAMKASQWFKVSDKWYVNGSGALAVNTTVDGYGVNANGEWVN

SeqID 314

MFASKSERKVHYSIRKFSVGVASVAVASLVMGSVVHATEKERTTQVPTSSNRGPERRKAAEQFDEYINKMQLDKRKHTQNL  
 AFNIQLSRIKTEYLNLKESEAELPSKIAELDAAFKQFKDTLPTEPEKKVAEEAKVVAEEAKKAKAQAEEEDHR  
 NYPTITYKTLDEIAEFDVKVKEAEELVKEADESNEGTINQAKAKVESKAAEATRKKIKTDREKAEEAKRRAADEKEQ  
 DESXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXIAESDVVKVKEAEELVKEEAKESRNEEKIK  
 QAKAKVESKKAEEATRLEKIKTDRKKAAEEAKRKAEEEDKVKEKPAEQPQPAPAPKIGWKQENGWYFYNTDGSMATGWLQNNNGSWYLNANGSMATGWLQYNGS  
 WYLNANGDMATGWLQYNGSWYLNANGDMATGWLQYNGSWYLNANGDMATGWLQYNGSWYLNANGDMATGWLQYNGS  
 PADQQAEEDYARRSEEEYNRLTQQQPPKPEQOPAPAPKIGWKQENGWYFYNTDGSMATGWLQYNGSWYLNANGDMATGWLQYNGS  
 NGSWYLNANGDMATGWLQYNGSWYLNANGDMATGWLQYNGSWYLNANGDMATGWLQYNGS  
 WYLYLEASGAMKASQWFKVSDKWYVNGSGALAVNTTVDGYGVNANGEWVN

SeqID 315

MFASKSERKVHYSIRKFSIGVASVAVASLFLGGVVHAEGVRSENTPKVTSSGDEVDEYIKKMLSEIQLDKRKHTHNFALNLKI  
 SRIKTELYKLKVNVLEEKSKAELTSKTKVEFDAFEKFKKDTLKLGEKVAEEAKVVAEEAKKAKAQAEEEDHR  
 ELEIAESDVVKVKEAEELLKEEAKTRNEDTINQAKAKVSEQAETRKKIKTDREQAETXXXXXXXXXXXXXXXXXXXXX  
 XXXXXXXXXXXXXXXXXXXXXXXXXIAESDVVKVKEAEELVKEEAKESRNEEKVKQAKAKVESKKA  
 AEEAKRKAEEEDKVKEKPAEQPQPAPAPQPEKPTPKPEKPAAPKIGWKQENGWYFYNTDGSMATGWLQYNGSWYLNANGDMATGWLQYNGS  
 PPKTEPAQPSTPKTGWKQENGWYFYNTDGSMATGWLQYNGSWYLNANGDMATGWLQYNGSWYLNANGDMATGWLQYNGS  
 WYLNANGDMATGWLQNNNGSWYLNANGDMATGWLQYNGSWYLNANGDMATGWLQYNGSWYLNANGDMATGWLQYNGS  
 ANGEWVN

SeqID 316

MFASKSERKVHYSIRKFSIGVASVAVASLFLGGVVHAEGVRSENTPKVTSSGDEVDEYIKKMLSEIQLDKRKHTHNFALNLKI  
 TQNFAFNMKLSAIKTEYLYGLKEKSEAELPSSEAELPSEVAKLDAAFEQFKKDTLKLGEKVAEEAKVVAEEAKKAKAQAEEEDHR  
 RRNYPTITYKTLDEIAESDVEVKVKEAEELLKEEAKTRNEDTINQAKAKVSEQAETRKKIKTDREQAETXXXXXXXXXXXXX  
 XXXXXXXXXXXXXXXXXXXXXXXXXIAESDVVKVKEAEELVKEEAKESRNEEKVKQAKAKVESKKA  
 ATRLEKIKTDRKKAAEEAKRRAAEEEDKVKEKPAEQPQPAPAPQPEKPTEEPNPAPAPKIGWKQENGWYFYNTDGSMATGWLQYNGSWYLNANGDMATGWLQYNGS  
 SEEYRNRLTQQQPPKTEKPAQPSTPKTGWKQENGWYFYNTDGSMATGWLQYNGSWYLNANGDMATGWLQYNGSWYLNANGDMATGWLQYNGS  
 DMATGWLQNNNGSWYLNANGDMATGWLQYNGSWYLNANGDMATGWLQYNGSWYLNANGDMATGWLQYNGSWYLNANGDMATGWLQYNGS  
 ASQWFKVSDKWYVNGSGALAVNTTVDGYGVNANGEWVN

SeqID 317

MFASKSERKVHYSIRKFSIGVASVAVASLFLGGVVHAEGVRSENTPKVTSSGDEVDEYIKKMLSEIQLDKRKHTHNFALNLKI  
 SRIKTELYKLKVNVLEEKSKAELTSKTKVEFDAFEKFKKDTLKLGEKVAEEAKVVAEEAKKAKAQAEEEDHR  
 ELEIAESDVVKVKEAEELLKEEAKTRNEDTINQAKAKVSEQAETRKKIKTDREQAETRLENITKDREKAEEAKRKAEX  
 XXXXXXXXXXXXXXXXXXXXXXXXXIAESDVVKVKEAEELVKEEAKESRNEEKVKQAK  
 AKVESKQAEEATRLEKIKTDRKKAAEEAKRKAEEEDKVKEKPAEQPQPAPAPQPEKPTEEPNPAPAPKIGWKQENGWYFYNTDGSMATGWLQYNGSWYLNANGDMATGWLQYNGS  
 ARRSEEYRNRLTQQQPPKTEKPAQPSTPKTGWKQENGWYFYNTDGSMATGWLQYNGSWYLNANGDMATGWLQYNGSWYLNANGDMATGWLQYNGS  
 ANGDMATGWLQNNNGSWYLNANGDMATGWLQNNNGSWYLNANGDMATGWLQYNGSWYLNANGDMATGWLQYNGSWYLNANGDMATGWLQYNGS  
 GALAVNTTVDGYGVNANGEWVN

SeqID 318

MFASKSERKVHYSIRKFSIGVASVAVASLFLMGSVVHATEKERTTQVATSSNKANKSQTEHMKAQVDEYIKKKQLDKRKHT  
 QNVGLLTGLVVIKTEYLYGLSVSKKKSEAELPSEIKAALKDAAFEQFKKDTLPTEPGKKVAEEAKVVAEEAKKAKAQAEEEDHR  
 YPTNTYKTLDEIAESDVEVKVKEAEELVKGSYRNLETRKKLIKQSEKLRIKLLMLOXXXXXXXXXXXXXXXXXXXXX  
 XXXXXXXXXXXXXXXXXXXXXXXXQNGWYFYNTDGSMATGWLQNNNGSWYLNANGDMATGWLQYNGSWYLNANGDMATGWLQYNGSWYLNANGDMATGWLQYNGS  
 QYNGSWYLNANGDMATGWFQYNGSWYLNANGDMATGWFQYNGSWYLNANGDMATGWFQYNGSWYLNANGDMATGWLQYNGSWYLNANGDMATGWLQYNGS  
 GSWYLNANGDMATGWLQYNGSWYLNANGDMATGWLQYNGSWYLNANGDMATGWLQYNGSWYLNANGDMATGWLQYNGSWYLNANGDMATGWLQYNGS  
 VNANGEWVN

Note: "X" represents undefined/missing nucleotides or amino acids due to unavailable sequencing information.